Honeywell

Access Control Systems

Product Catalogue 2006

Preface   Dear business partner,

Forming associations opens doors…

Access control is nowadays an integral part of the safety concept of most companies, authorities and public organizations. Increased safety risks in all sectors have helped the market for electronic access control systems grow by several percent over the last year. A trend which is likely to continue over the next few years.

Over the last few years, an enormous development has taken place in this field:

Access control has developed from an "intelligent key" to the all-comprehensive medium for efficient building management. However, in the age of digital technology, the innovation cycles get shorter and shorter, the degree of integratability of different safety technologies and systems is continually increasing, making the market each time less transparent.

In order to adapt optimally to this situation and to be ready for future market requirements, Honeywell Security has continually extended and supplemented its product portfolio.

Our new catalog offers you, apart from our proven products, also the brand new reader series in the Accentic design, innovative visitor management including LobbyWorks, the now improved ACS-8 access control center for even more economical solutions in the management of several doors and a new version of the IQ MultiAccess software solution including an extended range of functions.

In all changes, we maintain our proven customer-related strategies.

Your satisfaction is at the center of our daily work. This is why we have reorganized our sales team: Your contact persons can now be reached more easily and will support you in your business success with their professional teams.

Enjoy our new catalog and do not hesitate to contact us for any queries you may have.

Sincerely,

Stephan Winkelmann
Manager Marketing and Communication

► Customer Service Centre

Our office hours are as follows:
Monday to Thursday from 7.30 am to 5.00 pm and Friday from 7.30 am to 3.00 pm, german time.

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► Processing of Repairs and Replacement Components

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▶ Abbreviations

The desired compactness of this list has made it necessary to work with abbreviations for some article designations. For your orientation, the most frequent abbreviations (legend) are listed below.

AC	=	Alternating current, Access Control
AM	=	Anti-Masking
BUS-1	=	Bus system 1
BUS-2	=	Bus system 2
DB	=	Database
DC	=	Direct current
DTMF	=	Dual Tone Multiple Frequency
el.	=	electronic
HF	=	High frequency
HTML	=	Hyper Text Markup Language
ID	=	Intrusion Detection
IP	=	International Protection or Internet Protocol
ISDN	=	Integrated Services Digital Network
LAN	=	Local Area Network
LCD	=	Liquid Cristal Display
me.	=	mechanical
MF	=	Multi-functional
PIN	=	Personal Identification Number
PL	=	Product Line
RAID	=	Redundant Array of Independent Disks
RAL	=	German Institute for Quality Assurance and Marking/ Colour code
SQL	=	Standard Query Language
T&A	=	Time & Attendance
uni	=	universal
VdS	=	German Insurance Association
ZG0	=	Housing size W 230 x H 155 x D 190 mm
ZG1	=	Housing size W 300 x H 186 x D 125 mm
ZG2	=	Housing size W 350 x H 300 x D 152 mm
ZG3.1	=	Housing size W 500 x H 300 x D 210 mm
ZG3.2	=	Housing size W 500 x H 300 x D 260 mm

ZG4	=	Housing size W 580 x H 640 x D 300 mm
ZG5	=	Housing size W 600 x H 630 x D 300 mm
ZG6	=	Housing size W 600 x H 1035 x D 300 mm
ZG7.1	=	Housing size W 488 x H 272 x D 155 mm
ZG7.2	=	Housing size W 488 x H 272 x D 230 mm
ZG8.1	=	Housing size W 488 x H 405 x D 155 mm
AC	=	Access Control
XML	=	Extended Markup Language

Notes

VdS	=	VdS approval (German Insurance Association)
i	=	Information, important notes such as special versions, dependencies, etc.
1PU/1VPE	=	Packaging unit

	=	Scope of delivery of the article, listing of components delivered, not shown
	=	Delivery period of the article if different from standard delivery period (1 to 7 days)

Information regarding the packaging units:

For all unlabelled articles, the packaging unit is 1.
If the packaging unit is greater than 1, the following applies:

1. The article shall only be sold in packaging units.

2. The quantity to be ordered always refers to the number of packaging units and not to the number of individual articles.

IP type of protection
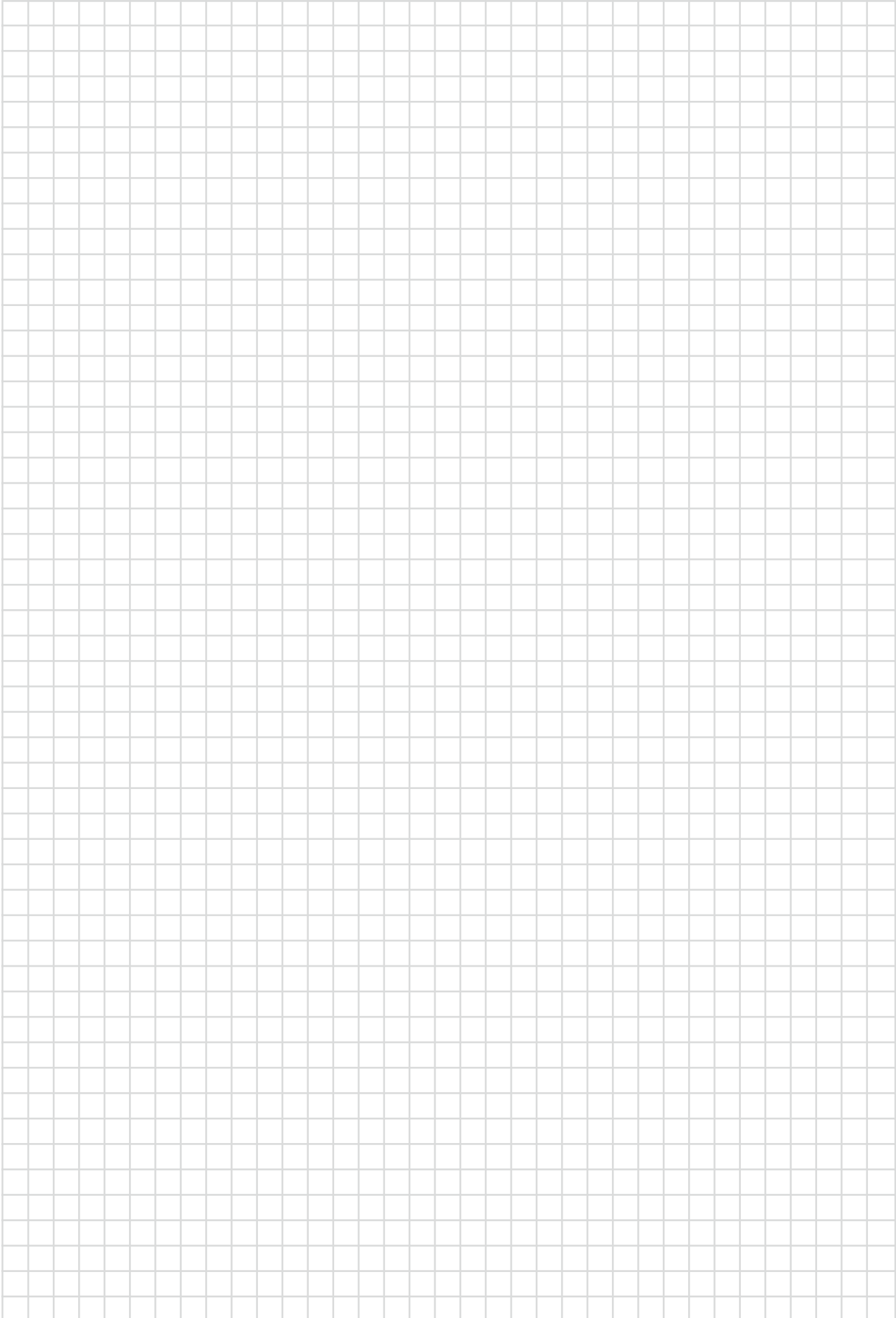
For some components, the IP type of protection is indicated. The IP type of protection depends on the design and construction principle. The following table lists the meaning of the digits.

First digit
Protection again solid objects

0   not protected

1   protected again solid objects
     of more than 50 mm in cross-section e.g.
     accidental touching with the hand.

2   protected again solid objects
     of more than 12 mm in cross-section
     e.g. finger.

3   protected again solid objects
     of more than 2.5 mm in cross-section
     e.g. tools and wires.

4   protected again solid objects
     of more than 1 mm in cross-section
     e.g. tools, wires and fine wires.

5   protected against dust - almost tight
     (in general no impairment)

6   completely dustproof.

Second digit
Protection against liquids

0   not protected

1   protected against vertical dripping (water).
     accidental touching with the hand.

2   protected against water drops with an angle
     of incidence deviating from the vertical
     by up to 15 degrees.

3   protected against water drops with an angle
     of incidence deviating from the vertical
     by up to 60 degrees.

4   protected against spray water on all sides
     - almost tight.

5   protected against low-pressure water jets
     from all directions - almost tight.

6   protected against heavy gushes of water
     e.g. on the deck of a ship - almost tight.

7   protected against immersion up to a depth of
     between 15 cm and 1 m.

8   protected against longer periods of
     immersion under pressure (depth).

Example:
International Protection IP64: - completely dustproof and protected from splash water on all sides - nearly tight.

Table of Contents

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Notes

www.honeywell.com/security/de

Stand-Alone Solutions
ACD
ACC
ACU
Door Code Systems

Honeywell   7

022421.10 |||||||||||||||||||||||| ACD pin code, 8 mm

VdS   **Approval**   **Z199705 (Access Control), Class A**

The ACD pin code (ACD=Access Control Door) works in connection with a commercially available door lock with Euro profile cylinder PZ as autonomous access control. The pin codes can have 1 to 8 digits and are freely selectable by the customer. Up to four pin codes can be stored. A permanent release is also possible.

The mechanical function of the door lock still remains intact. From the inside, the door can still be opened as usual using the door handle. The external handle is free wheeling and is activated after entering a correct pin code.

The door lock release interval can be selected between 3, 8 12 and 20 seconds. The electronics makes sure that the door can only be opened once during the release time.

The power supply is provided by three AA cells. A necessary replacement of the batteries is indicated by an optic signal.

Performance Features

• 1- to 8-digit pin code
• max. 4 codes
• Permanent release possible

NEW:

• with reinforced mechanics

Technical Data

Current consumption in no-load operation	15 µA
Power consumption during operation	8 mA
Environmental class according to VdS	II
Operating temperature range	-5 °C to +55 °C
Storage temperature range	-25 °C to +70 °C
Power supply	3 AA cells (1. 5 V) alkali/manganese
Life expectancy	about 24 months (at 50 trigger operations/day)
Bolt length	55 mm or longer
Distance measure	72 mm
Door leaf thickness	38 -60 mm
Follower measure	8 mm
Dimensions (W x H x D) outside signboard	65 x 289 x 27 mm
Dimensions (W x H x D) internal escutcheon	65 x 289 x 12 mm
Colour	grey-white, similar to RAL 9002

ℹ️ Suitable for DIN left-hand or DIN right-hand.
Not approved for fire barrier doors.

022420.10 ‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖ **ACD contactless, 8 mm**

VdS **Approval**   **Z199706 (Access Control), Class A**

The ACD contactless (ACD=Access Control Door) works in connection with a commercially available door lock as autonomous access control. The ACD contactless manages up to 99 proximity ID cards. The access rights can be changed without problems using the programming card set.

The mechanical function of the door lock still remains intact. From the inside, the door can still be opened as usual using the door handle. The external handle is free wheeling and is activated after reading an authorised ID card. The door lock release interval can be selected between 3, 8 12 and 20 seconds. The electronics makes sure that the door can only be opened once during the release interval.

The power supply is provided by three AA cells. A necessary replacement of the batteries is indicated by an optic signal. When ordering the ID card, please note that another three ID cards have to be ordered. They form the programming card set.

Performance Features

• can manage up to 99 proximity ID cards
• Permanent release possible

NEW:
• with reinforced mechanics

Technical Data

Current consumption in no-load operation	15 µA
Power consumption during operation	30 mA
Environmental class according to VdS	II
Operating temperature range	-5 °C to +55 °C
Storage temperature range	-25 °C to +70 °C
Power supply	3 AA cells (1. 5 V) alkali/manganese
Life expectancy	about 12 months (at 50 trigger operations/day)
Reading range	approx. 7 cm
Bolt length	55 mm or longer
Distance measure	72 mm
Door leaf thickness	38 - 60 mm
Follower measure	8 mm
Dimensions (W x H x D) outside signboard	65 x 289 x 27 mm
Dimensions (W x H x D) internal escutcheon	65 x 289 x 12 mm
Colour	grey-white, similar to RAL 9002

ⓘ Suitable for DIN left-hand or DIN right-hand.
Not approved for fire barrier doors.

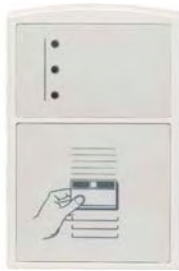Proximity ID cards and ID key fobs can be used, which are listed in the "Information Carrier" chapter
(exception: mifare and Legic cards).
Please note that the reading distance of ID key fobs is somewhat lower than that of ID cards.

Honeywell   9

**026389.00**   ‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖   **ACC 50**

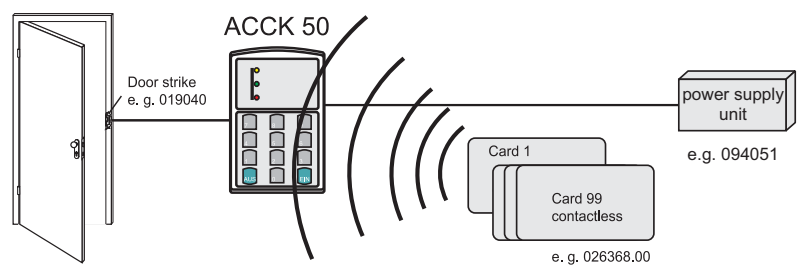Proximity reader having its own authorisation request for controlling a door. Programming is very simple by means of programming cards. When connected to a timer switch, different authorisations can be assigned (e.g. one card will open around the clock, while another card has access from 8:00 am to 4:00 pm only).

Performance Features

• Door lock release with up to 99 different prox-
  imity cards as a function of time (external time
  switch)
• simple programming
• simple connection technology via prefabricated
  5-m cable
• Activation of the door strike via integrated relay
  (max. 24 V / 1 A)
• Relay output for alarm signal (24 V / 1 A)
• Connection for door feedback and door lock
  release from inside
• RS 232 printer interface for chronological
  printout
• Status display via three LEDs:
  - yellow = ready-to-run
  - green = door lock released
  - red = not authorised
• Area switching via external input
• Adjustable door lock release and door moni-
  toring interval

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V DC to 15 V DC
Current consumption typ.	60 mA
Current consumption max.	120 mA
Power consumption	1.44 W
Reading distance max.	12 cm
max. load of the potential-free contacts	24 V / 1 A DC
Printer interface	RS 232 C TxD only
max. cable length of printer interface	15 m
Type of protection DIN 40050	IP 64
Operating temperature	-25°C to +60°C
Storage temperature range	-35°C to +70°C
Environmental class according to VdS	III
Colour	grey-white, similar to RAL 9002
Weight	approx. 200 g
Dimensions (W x H x D)	82 x 127 x 14 mm

incl. adapter base 022197
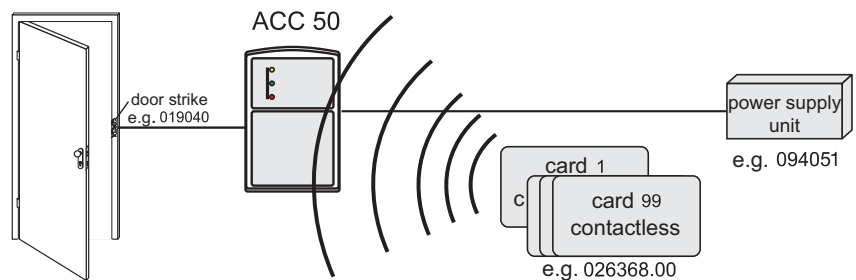
Planning Example ACC 50

Accessories

Programming card set for ACC 50
The programming card set for the ACC 50 is generated by the installer.
When ordering the card, please note that another three cards have to be ordered.

026368.00	ID card for proximity readers, neutral
026370.00	ID card for proximity readers, printed
094051	Power supply unit 12 V DC / 500 mA
019040	Electric door strike

026384.00 |||||||||||||||||||||| **ACCK 50**

Same functions as ACC 50 but additionally equipped with keypad for door code. When connected to a serial printer, the time and date of the access attempt is automatically logged. Proximity reader having its own authorisation request for controlling a door. Programming is very simple by means of programming cards.

When connected to a timer switch, different authorisations can be assigned (e.g. one card will open around the clock, while another card has access from 8:00 am to 4:00 pm only).

Performance Features

- Access criterion 1: Card and door code
- Access criterion 2: Card only
- Door lock release with up to 99 different proximity cards as a function of time (external time switch)
- simple programming
- simple connection technology via prefabricated 5-m cable
- Activation of the door strike via integrated relay (max. 24 V / 1 A)
- Relay output for alarm signal (24 V / 1 A)
- Connection for door feedback and door lock release from inside
- RS 232 printer interface for chronological printout
- Status display via three LEDs:
  - yellow = ready-to-run
  - green = door lock released
  - red = not authorised
- Area switching via external input
- Adjustable door lock release and door monitoring interval

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V DC to 15 V DC
Current consumption typ.	60 mA
Current consumption max.	120 mA
Power consumption	1.44 W
Reading distance	12 cm
max. load of the potential-free contacts	24 V / 1 A DC
Printer interface	RS 232 C TxD only
max. cable length of printer interface	15 m
Type of protection DIN 40050	IP 64
Operating temperature range	-25°C to +60°C
Storage temperature range	-35°C to +70°C
Environmental class according to VdS	III
Colour	grey-white, similar to RAL 9002
Weight	approx. 200 g
Dimensions (W x H x D)	82 x 127 x 14 mm

incl. adapter base 022197

Planning Example ACCK 50

Accessories

Programming card set for ACCK 50

The programming card set for the ACCK 50 is generated by the installer.

When ordering the card, please note that another six cards have to be ordered.

026368.00	ID card for proximity readers, neutral
026370.00	ID card for proximity readers, printed
094051	Power supply unit 12 V DC / 500 mA
019040	Electric door strike

026315.10   ‖‖‖‖‖‖‖‖‖‖‖‖   **ACU evaluating unit for access control**

Evaluating unit, for mounting in secured areas, having its own authorisation request for controlling a door. Programming is very simple by means of programming cards. When connected to a timer switch, different authorisations can be assigned, e.g. one card will open around the clock, while another card has access from 8:00 am to 4:00 pm only. Access rights can be changed without intervening in the unit. Different magnetic card and proximity card readers can be connected to this evaluating unit.

Performance Features

- Integrated 230 V power supply unit
- Door lock release for up to 99 DIN-coded
  ID magnetic cards or proximity
  ID cards or 2000 Esser-coded
  magnetic cards
- simple programming
- simple connection technology via terminals
- Activation of door strike via integrated relay
- Relay output for alarm signal
- Connection for door feedback and door lock
  release from inside
- Status display via three LEDs in the reader:
  - yellow = ready-to-run
  - green = door lock released
  - red = not authorised
- Area switching via external input
- Adjustable door lock release and door monitoring interval
- with RS 232 interface, for example as printer interface

Technical Data

Rated operating voltage	230 V AC
Operating voltage range	230 V AC -15% to +10%
Mains frequency	50 Hz
Output voltage	10 V DC to 15 V DC
Power consumption	max. 10 VA
Max. current drain (ext. consumer)	300 mA
Device with fuse protection	100 mAT, 250 V
Contact load door strike relay	1 A / 24 V
Contact load alarm relay	1 A / 24 V
Type of protection DIN 40050	IP 30
Operating temperature range	-10°C to +45°C
Storage temperature range	-25°C to +70°C
Colour	grey-white, similar to RAL 9002
Weight	750 g
Dimensions (W x H x D)	201 x 147 x 51 mm

door strike
e.g. 019040

e.g. 026383.00
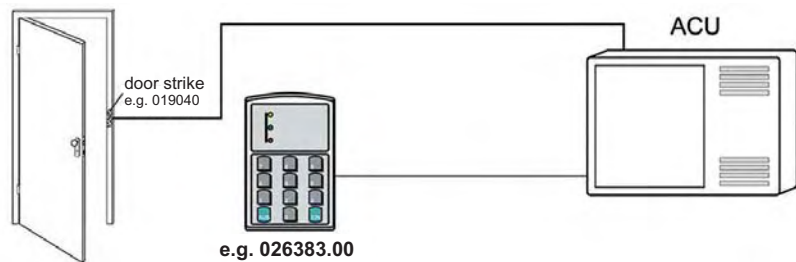
Planning Example ACU Evaluating Unit

Accessories
Programming card set for ACU when using proximity readers.
The programming card set for proximity readers is generated by the installer.
When ordering the card, please note that for readers without keypad another three
and for readers with keypad another six cards have to be ordered.

026302.00	Programming card set for Esser-coded magnetic cards
026317.00	Programming card set for DIN-coded magnetic cards
026368.00	ID card for proximity readers, neutral
026370.00	ID card for proximity readers, printed
019040	Electric door strike
019042	Security door strike DIN right-hand, VdS
019042.01	Security door strike DIN left-hand, VdS

025050   ‖‖‖‖‖‖‖‖‖   **Door code compact device**

Performance Features

- 1-channel device
- microprocessor-controlled
- 2- to 6-digit code input
- time-settable channel release
  1-30 seconds
- optic display for release period
- Permanent unlocking via keypad
- Door strike with no-load current or load
  current function can be used
- Compact design
- Power supply unit and keypad integrated
- Simple installation
- Attractive design
- Metal housing

The door code compact device is used as autonomous door strike control device for one door. The device designed in advanced microprocessor technology works with an individually adjustable 2- to 6-digit numeric code.

This makes it easier to set up person-related access authorisations for a room. Up to four different user codes can be programmed.

Control device with integrated power supply unit and keypad in a lockable housing. a 2- to 6-digit code can be set; door unlocking interval of 1 - 30 seconds; can be reset for 12 V / DC door strike max. 250 mA; suitable for no-load current strike and strike with load current function.

Technical Data

Nominal mains voltage	230 V DC
Mains voltage range	230 V AC +10 % to -15 %
Mains frequency	50 Hz
Power consumption full load	11.5 VA
Relay contact rating	24 V DC / 1A
External current drain	max. 0.25 A
Humidity class according to DIN 40040	Class F
Type of protection DIN 40050	IP 30
Operating temperature range	0 °C to +40 °C
Storage temperature range	-20 °C to +60 °C
Release period	1 - 30 sec.
Housing	Die-cast aluminium, powder-coated
Dimensions (W x H x D)	120 x 156 x 67 mm
Colour	grey-white, similar to RAL 9002

Accessories

019040	Universal electric door strike (load current) with feedback contact
019041	Universal electric door strike (no-load current) with feedback contact
019042	Security door strike, DIN right-hand, VdS
019042.01	Security door strike, DIN left-hand, VdS

025051   ‖‖‖‖‖‖‖‖‖‖‖   **Door code control device for 1 door**

A simple low-cost door code system with a very high security standard. The spatial separation of control device and keypad unit makes this system also suitable for external doors. For this application, waterproof flush mounted/surface mounted keypads are also available. The door codes are changed by means of a digital switch. The set code is read directly. The digital switches are mounted behind the device door, which is secured by means of a cylinder lock. The door code has 4 digits, thus allowing up to 10,000 different codes.

Performance Features

- 1-channel device
- microprocessor-controlled
- time-settable channel release
  1-30 seconds
- Temporary unlocking program
- Continuous unlocking program
- Non-authorised code evaluation
- Potential-free door strike relay
- Potential-free non-authorised code relay

Technical Data

Rated operating voltage	230 V AC
Operating voltage range	230 V AC -15% to +10%
Mains frequency	50 Hz
Switching voltage	12 V DC
Max. load	600 mA
Door lock release interval	1-30 seconds
Relay contact rating	25 V /2 A
Operating temperature range	0°C to +40°C
Type of protection DIN 40 050 (mounted)	IP 40
Housing	Steel sheet, powder-coated
Colour	grey-white, similar to RAL 9002
Dimensions (W x H x D)	230 x 150 x 70 mm
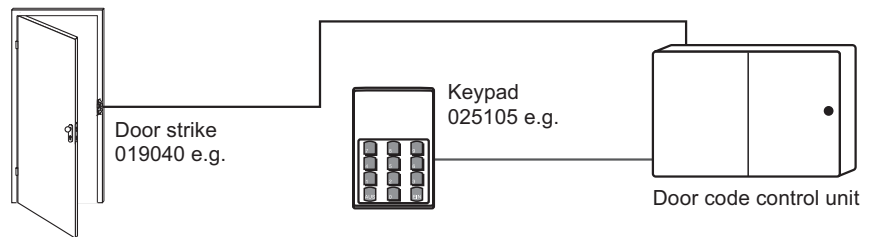
Planning example door code control device for 1 door

Accessories

025105	Lockable keypad, three LEDs, matrix connection
025170	Keypad unit for indoor mounting, without LED, matrix, surface mounted
025171	Keypad unit for indoor mounting, with LED, matrix, surface mounted
025172	Keypad unit for outdoor use, matrix connection
019040	Universal electric door strike (load current) with feedback contact
019041	Universal electric door strike (no-load current) with feedback contact
019042	Security door strike, DIN right-hand, VdS
019042.01	Security door strike, DIN left-hand, VdS

Linkable Access Controllers
ACT
ACS-2 plus
ACS-8

Honeywell

► **ACT**

Performance Features
- Small access controller for 1 door
- Slot for RS 485 interface (5-wire) for connection to interface converter
- Integrated RS 232 interface for connection to a notebook or PC
- Slot for Ethernet interface for connection to 10/100 Mbits/s - LAN
- Connection for an external reader (magnetic, chip card, proximity reader or mifare* and Legic* readers)
- To be operated with Multi Access Lite / IQ MultiAccess

* not in Oris design

Connections:
- 1 reader with LED display and 2-wire keypad
- 1 door strike relay
- 1 alarm relay
- 1 door strike key
- 1 door monitoring contact

without interface

Accessories
026693	RS 485 5-wire interface
026840.28	Ethernet interface (AutoSense, 10/100 Mbits/s)
026817.03	Interface converter
026809	Connecting cable
026109	PC adapter cable
019040	Electric door strike (AC)
027901	Reader converter board

Memory:
- 1 to 800 persons
- Ring buffer for 2000 events

Special functions:
- Door lock release with
  a) card only,
  b) PIN code only,
  c) PIN code and card
  d) card or PIN code
- 4 access authorisations for persons specifying time, weekday and door

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026101.10   **Access Controller ACT**

VdS   **Approval**   **Z 100702 Class A**

For 230 V AC power supply
Management of 1 to a maximum of 800 persons.

Technical Data
Rated operating voltage	230 V AC
Operating voltage range	230 V AC -15% to +10%
Mains frequency	50 Hz
Output voltage	10 V DC to 15 V DC
Power consumption	10 VA
Max. current drain (ext. consumer)	300 mA
Device with fuse protection primary	100 mAT, 250 V
Device with fuse protection secondary	1 AT, 250 V
Class of protection DIN 40050	IP 20
Environmental class according to VdS	II
Operating temperature range	-5°C to +45°C
relative humidity	max. 95% no condensation
Dimensions (W x H x D)	201 x 147 x 51 mm
Weight	0.76 kg
Colour	grey-white, similar to RAL 9002

026100.10   **Access Controller ACT**

VdS   **Approval**   **Z 100701 Class A**

For 12 V DC power supply.
Management of 1 to a maximum of 800 persons.

Technical Data
Rated operating voltage	12 V DC
Operating voltage range	10 V DC to 15 V DC
Output voltage	0.7 V < Connection voltage
Power consumption	at least 0.9 VA
Device with fuse protection	1AT, 250 V
Type of protection DIN 40 050	IP 20
Environmental class according to VdS	II
Operating temperature range	-5°C to +45°C
relative humidity	max. 95% no condensation
Dimensions (W x H x D)	201 x 147 x 51 mm
Weight	0.66 kg
Colour	grey-white, similar to RAL 9002

Accessories

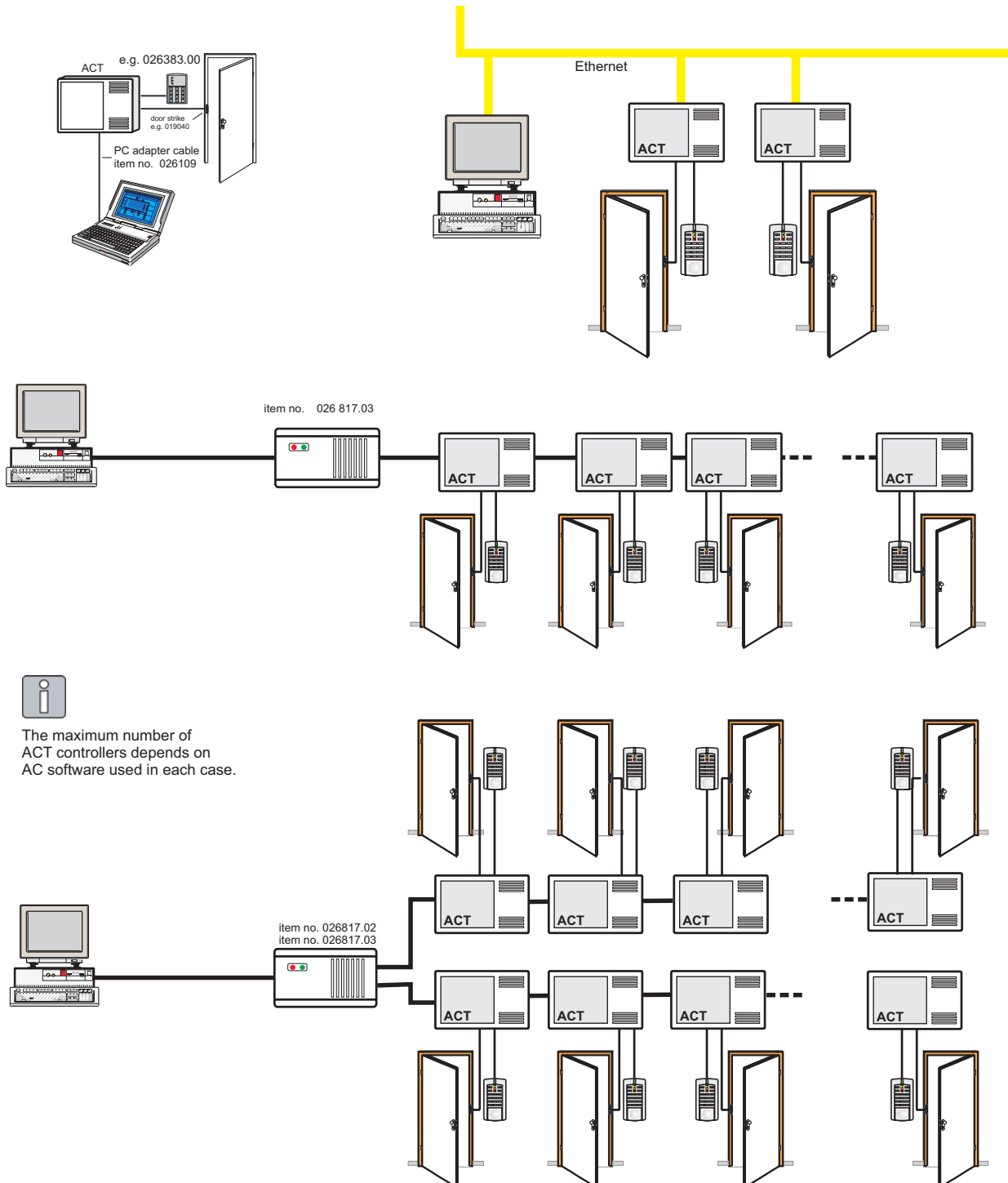|		
026110	‖‖‖‖ ‖ ‖‖‖‖	**Software upgrade for ACT 300 to 800 persons**

Memory extension option from 300 to 800 persons by means of firmware update (EPROM replacement).
for older versions of the ACT:
026100.10
026101.10

Planning Examples ACT

Terminals on Ethernet

The maximum number of ACT controllers depends on AC software used in each case.

ACS-2 plus access controller

Performance Features

- Intelligent access control central unit for 2 doors

Connections:
- 2 readers with clock/data interface
- 2 keypads with 2-wire interface
- 4 relay outputs (e.g.: door strike, flash lamp, etc.)
- 3 semiconductor outputs
  (e.g.: threat, WatchDog, etc.)
- 4 digital inputs
  (e.g.: door strike key, monitoring contact, etc.)
- 8 differential detector groups
  (e.g.: magnetic contact, glass break sensor, etc.)
- integrated tamper contact
- For Host interfaces RS 485, RS232 or Ethernet
  10/100 Mbits/s Host
- Analog modems and ISDN terminal
  adapters are supported.
- Direct modem connection without additional card

Memory:
- Upgradable program memory (flash)
- Dynamic memory management
- Battery-buffered memory
  (0.5 MB, extendable to 3.5 MB)
- Max. approx. 65,500 badges*
- Max. approx. 512 area/time zones*
- Public holiday and annual holiday calendar
- Event buffer for max. 65,000 events*
- Clock with date and automatic daylight saving
  time change

* The values depend on the memory extension and
  parameterisation of the dynamic memory ma-
  nagement.

Special functions:
- Variable door lock release, monitoring and
  alarm periods
- Automatic function control via time zones
  (e.g.: door lock release, etc.)
- Special relay function for real-time release
  for escape route interface
- Flexible event control via inputs and relays
- Macro control
- Antipassback

Housing
- Compact housing
  (with integrated power supply unit in the 230 V
  version)

The ACS-2 plus is a two-door access control centre. Two separate doors or a door with internal and external readers can be connected by the usual method.

The complete firmware is upgradable. No more time-consuming replacements of the EPROMs will be necessary in case of function extensions. New program parts or extensions can be downloaded to the central control unit via the AC software.

In the online mode, an interface converter allows up to eight and a bus controller allows up to 32 ACS-2 plus devices to be operated. Via Ethernet there is no limit.
The access control rights are set up and managed via the AC software.
To be operated with:
- MultiAccess for Windows from V6 / SP1
- MultiAccessLite
- IQ Multi Access
- NovaTime

The ACS-2 plus contains all decision rights for door lock release and control.

Housing with processor board
Periphery connection via screw terminals
Connections for two clock/data readers
Connections for two 2-wire keypads
Connection for host interface

Accessories

027901	Reader converter board
018002	12 V DC accumulator / capacity 2.0 Ah
018003	12 V DC accumulator / capacity 3.5 Ah
026840.03	RS 232 interface
026693	RS 485 5-wire interface
026840.28	Ethernet interface 10/100 Mbits/s (AutoSense)
026596	Memory extension 1MB RAM
026597	Memory extension 2MB RAM
026598	Memory extension 3MB RAM

026547 |||||||||| **ACS-2 plus, 230V AC, without interface**

Technical Data

Rated operating voltage	230 V AC
Operating voltage range	230 V AC - 15% to + 10%
Operating temperature range	0°C to +45°C
Storage temperature range	-25°C to 70 °C
Environmental class according to VdS	II
Colour	grey-white, similar to RAL 9002
Housing	Steel sheet
Dimensions (W x H x D)	250 x 210 x 100 mm

026548   ‖‖‖‖‖‖‖‖‖   **ACS-2 plus, 12V DC, without interface**

Technical Data

Rated operating voltage	12V DC
Operating voltage range	12V to 15V
Operating temperature range	0°C to +45°C
Storage temperature range	-25°C to 70 °C
Environmental class according to VdS	II
Colour	grey-white, similar to RAL 9002
Housing	Steel sheet
Dimensions (W x H x D)	250 x 210 x 100 mm

▶ **Memory extensions**

026596   ‖‖‖‖‖‖‖‖‖   **1 MB RAM memory card for ACS-2 plus / ACS-8**

026597   ‖‖‖‖‖‖‖‖‖   **2 MB RAM memory card for ACS-2 plus / ACS-8**

026598   ‖‖‖‖‖‖‖‖‖   **3 MB RAM memory card for ACS-2 plus / ACS-8**

Planning Example ACS-2 plus

Reader connection options ACS-2 plus

Connection a

Connection b

e. g. Ethernet

e. g. Ethernet

IQ MultiAccess for Windows

IQ MultiAccess for Windows

Clock/Data

Clock/Data

PC: Ethernet network card

PC: Ethernet network card

1 door with inside and outside readers
(keypad can be connected)

2 doors with outside reader
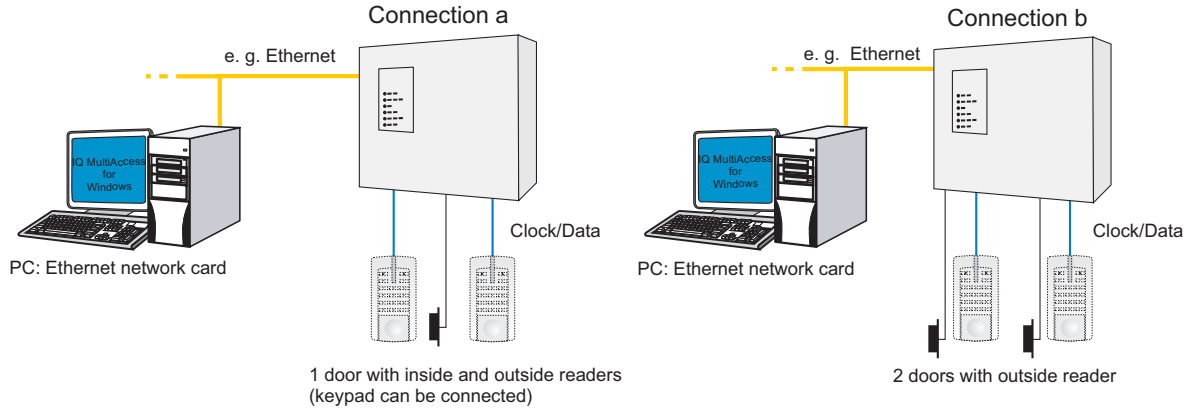
ACS-2 plus connection via Ethernet

Connection type a or b is possible for all ACS-2 controllers

Connection a

Connection b

e. g. Ethernet

e. g. Ethernet

AC-Software

AC-Software

Clock/Data

Clock/Data

PC: Ethernet connection

PC: Ethernet connection

One door with entry and exit
reader (keypad connectable)

Two doors with entry readers
(keypad connectable)
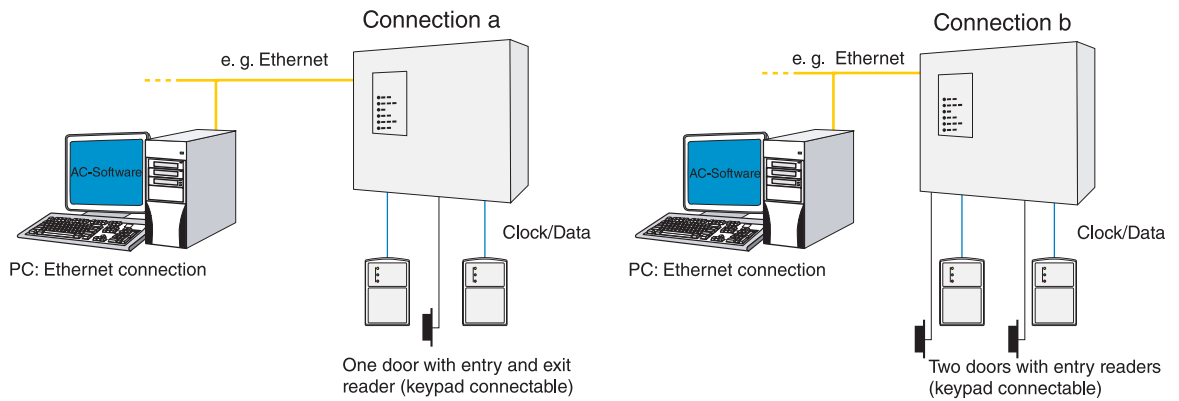
ACS-2 plus connection via RS 485

Connection type a or b is possible for all ACS-2 controllers

RS 232

RS 485

AC-Software

Interface converter
or external bus controller
or internal bus controller
inside the PC

Clock/Data

Clock/Data

PC: COM 1 up to COM 16
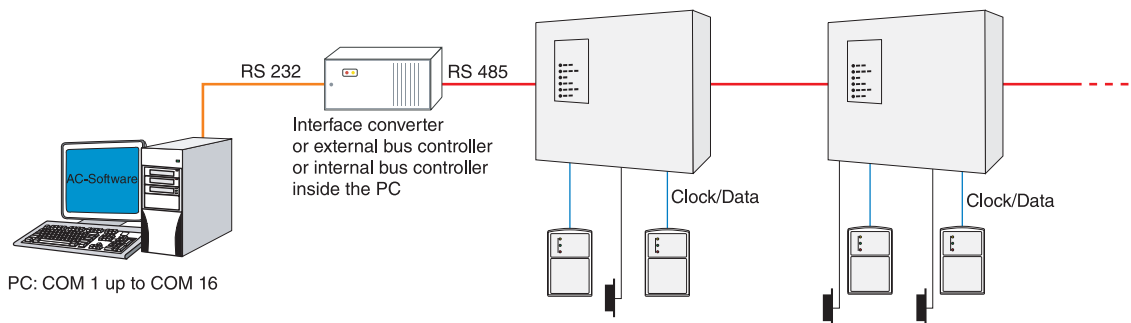
ACS-8 access controller

Performance Features

- Intelligent Access Controller for 4 doors (can be extended to max. 8 doors (sixteen readers) via RS 485 module bus)

New :
- 4 door strikes directly connectable (with IQ MultiAccess V3 and higher)

Connections:
- 2 readers with clock/data interface
- 2 keypads with 2-wire interface
- 4 relay outputs (e.g.: door strike, flash lamp, etc.)
- 3 semiconductor outputs (e.g.: threat, WatchDog, etc.)
- 4 digital inputs (e.g.: door strike key, monitoring contact, etc.)
- 8 differential detector groups (e.g.: magnetic contact, glass breakage sensor, etc.)
- integrated tamper contact
- optional host interfaces (RS 485, RS 232, Fast Ethernet 10/100 Mbits/s, Current Loop)
- RS 485 module bus (optionally via comm. module)
- Flexible power supply unit configurations, depending on the required power
- 12 V DC emergency power supply, depending on power supply unit configuration and required power

- Analog modems and ISDN terminal adapters are supported.
- Direct modem connection without additional card

Memory:
- Upgradable program memory
- Dynamic memory management
- Battery-buffered memory (0.5 MB, extendable to 3.5 MB)
- Max. approx. 65,500 badges*
- Max. approx. 512 area/time zones*
- Public holiday and holiday calendar
- Booking buffer for max. 65,000 events*

* The values depend on the memory extension and parameterisation of the dynamic memory management.

Special functions:
- Clock with data and automatic summer/winter time change
- Variable door lock release, monitoring and alarm periods
- Automatic function control via time zones (e.g.: door lock release, etc.)
- Special relay function for real-time release for escape route interface

New from firmware V5:
- Comfortable and flexible event control via input and output modules
- Macro control (intrusion detection system control, lift control, etc.)
- Zone change control/anti-passback
- Barring of repeated entry

New from firmware V6 (since March 2006):
- Auto-addressing mode of the new Accentic readers
- Easy-to-implement man-trap control
- Implementation of picture comparison
- Multiple person access control (2-men-rule)
- 4 door strikes directly connectable to ACS-8**
- 2 doors can be connected to the door module**
- Motorized readers for proX, mifare, Legic are supported

** using IQ MultiAccess V3

[VdS] **Approval**   **Z 105009 Class C**

ACS-8 is the high-end Access Controller which meets all requirements of an advanced access control system. Its particular performance feature is its flexible and freely selectable installation technology. Thus, up to two separate doors or a door with internal and external readers can be connected by the usual method.

The communication module allows an extension by means of wire-saving RS 485 bus technology to max. eight doors (sixteen readers).
As standard feature, two controllable RS 485 interface drivers are integrated in the communication module.

The complete firmware is upgradable. No more time-consuming replacements of the EPROMs will be necessary in case of function extensions. New program parts or extensions can be down uploaded to the central control units via the AC software.
To be operated with:
- Multi Access for Windows from V5
- IQ MultiAccess

In the online mode, a bus controller allows up to 32 ACS-8 devices to be operated. The access control rights are set up and managed via IQ Multi Access.
The ACS-8 contains the decision rights for door lock release and control.

The optional fitting of an Ethernet card (026840.28) allows the terminal to be integrated directly into existing Ethernet networks (LANs).

The following components can be connected to the communication module:
- Magnetic card reader RS 485
- Legic reader RS 485, mifare reader RS 485
- Proximity reader RS 485
- Keypad RS 485
- Many readers of other brands (e. g. HID) via the converter board
- Door module 12 V version/230 V version RS 485
- Input module RS 485, output module RS 485, input/output module RS 485
- Biometric detection systems (upon request):
  - Finger print
  - Face pass
  - Iris
  - Hand vein pattern

The connection to intrusion detection systems must be done via the input/output modules. From V 02 and macro control.
The connection to escape route technology is done directly via a temporary release.

Housing with processor board
Periphery connection via screw terminals
Connections for two clock/data readers
Connections for two 2-wire keypads
Slot for host interface and memory card
Assembly site for communication module

Accessories

026692	RS 485 5-wire interface without potential separation or
026693	RS 485 5-wire interface with potential separation or
026840.03	Asynchronous RS 232 host interface or
026840.16	Current loop current interface or
026840.28	Ethernet interface 10/100 Mbits/s
018002	12 V DC accumulator / capacity 2.0 Ah or
018003	12 V DC accumulator / capacity 3.5 Ah
026596	1 MB RAM memory card or
026597	2 MB RAM memory card or
026598	3 MB RAM memory card
026587	Communication module (max. 2 per ACS-8)
027901	Reader converter board

Honeywell   **21**

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026580 ‖‖‖‖‖ ‖‖‖‖ ‖‖ **ACS-8 standard system, 12 V DC**

VdS **Approval**   **Z105009 Class C**

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V DC to 15 V DC
Current consumption without periphery	max. 150 mA
Operating temperature range	0°C to +45°C
Storage temperature range	-25°C to +70°C
Environmental class according to VdS	II
Colour	grey-white, similar to RAL 9002
Housing	Steel sheet
Dimensions (W x H x D)	250 x 210 x 100 mm

026585 ‖‖‖‖‖ ‖‖‖‖ ‖‖ **ACS-8 standard system, 230 V DC**

VdS **Approval**   **Z105009 Class C**

Technical Data

Rated operating voltage	230 V AC
Operating voltage range	230 V AC -15% to +10%
Continuous current drain	1.4 A
Accumulator support	1 x 018003 (3.5 Ah) or 2 x 018002 (2.0 Ah)
Operating temperature range	0°C to +45°C
Storage temperature range	-25°C to +70°C
Environmental class according to VdS	II
Colour	grey-white, similar to RAL 9002
Housing	Steel sheet
Dimensions (W x H x D)	350 x 280 x 100 mm

🚚 Includes power supply unit/charger 010 690.02

026575 ‖‖‖‖‖ ‖ ‖‖‖ **ACS-8 standard system with freely selectable power supply unit installation**

VdS **Approval**   **Z105009 Class C**

Depending on the required current, one of the following power supply charging units can be used:
012168 = 80 Ah/continuous current drain: 3.5 A
012170 = 130 Ah/continuous current drain: 5.0 A

Technical Data

Rated operating voltage	12 DC
Operating voltage range	10 V DC to 15 V DC
Current consumption without periphery	max. 150 mA
Operating temperature range	0°C to +45°C
Storage temperature range	-25°C to +70°C
Environmental class according to VdS	II
Colour	grey-white, similar to RAL 9002
Housing	Steel sheet
Dimensions (W x H x D)	350 x 280 x 100 mm

ℹ️ The selection of the power supply charging unit depends on the connected consumers.

▶ Memory extensions

| 026596 | ‖‖‖‖‖‖ | **1 MB RAM memory card for ACS-8 / ACS-2 plus** |

| 026597 | ‖‖‖‖‖‖ | **2 MB RAM memory card for ACS-8 / ACS-2 plus** |

| 026598 | ‖‖‖‖‖‖ | **3 MB RAM memory card for ACS-8 / ACS-2 plus** |

▶ Function extension

| 026587 | ‖‖‖‖‖‖ | **Communication module** |

The ACS-8 communicates with the connected RS 485 users via the communication module. As standard feature, two separate RS 485 interface drivers are integrated in the communication module.
A maximum of up to 32 users can be managed simultaneously.
For each ASC-8, up to 2 communication modules can be used. This gives a maximum of 4 separate RS 485 bus systems including up to 8 half-lanes. This allows even the most complex topologies to be generated.

Technical Data

| Current consumption | max. 150 mA |

Module bus devices / RS 485 modules

ℹ️ For bus readers and keypads, please see chapter "Readers, Keypads"

026590   **Input module, RS 485**

Technical Data	
Operating voltage range	9 V DC to 15 V DC
Current consumption	max. 140 mA
Dimensions (W x H x D)	118 x 118 x 30 mm

Performance Features
Connections:
• Digital inputs 4x potential separated

026591   **Output module, RS 485**

Technical Data	
Operating voltage range	9.5 V DC to 15 V DC
Current consumption	max. 250 mA
Dimensions (W x H x D)	118 x 118 x 30 mm

Performance Features
Connections:
• Relay 4 x 24 V DC/1 A

026592   **Input/output module, RS 485**

Technical Data	
Operating voltage range	9.5 V DC to 15 V DC
Current consumption	max. 230 mA
Dimensions (W x H x D)	118 x 118 x 30 mm

Performance Features
Connections:
• Differential inputs 2x clearable
• Digital inputs 2 x potential separated
• Relay outputs 2 x 24 V DC / 2 A

026595   **Module potential separation, RS 485**

A maximum of four modules without a potential separated RS 485 bus of their own can be connected to the module.
Recommended when using external power supply units and for long bus lines run outdoors.
Connectable modules include all readers and keypads equipped with RS 485.

Technical Data	
Operating voltage range	10V DC to 15 V DC
Current consumption	max. 140 mA
Dimensions (W x H x D)	118 x 118 x 30 mm

Performance Features
Connections:
• Control line

026593   ▌▌▌▌▌▌ ▌▌▌▌▌   **Door module, 12 V DC, RS 485**

The complete door periphery is wired on the door module. The door module is a module bus user and communicates with the ACS-8 via an integrated RS 485 interface.
The ACS-8 contains the access control rights and makes the decisions.
When equipped with MAfW, a door module can control **one door**. When equipped with IQ MultiAccess (from V3 on), a door module can control, as desired, either **one or two doors**.

Performance Features

Connections:

- two clock/data readers
- two 2-wire keypads
- Opening contact for 1 or 2 doors
- one bolt switching contact, clearable
- Door strike key for 1 or 2 doors
- Feedback contact for 1 or 2 doors
- Door relay for 1 or 2 doors
- one alarm relay
- one tamper relay

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption at no-load operation w/o ext. consumers	200 mA
Operating temperature range	-5°C to +55°C
Storage temperature range	-25°C to +70°C
Environmental class according to VdS	II
Colour	grey-white, similar to RAL 9002
Housing	Plastic
Dimensions (W x H x D)	250 x 210 x 100 mm

ℹ️ If, from IQ MultiAccess V3, two doors are controlled via the door module, the number of freely usable inputs and outputs is reduced.

026594   ▌▌▌▌▌ ▌▌▌▌▌▌   **Door module, 230 V AC, RS 485**

The complete door periphery is wired on the door module. The door module is a module bus user and communicates with the ACS-8 via an integrated RS 485 interface.
The ACS-8 contains the access control rights and makes the decisions.
When equipped with MAfW, a door module can control **one door**. When equipped with IQ MultiAccess (from V3 on), a door module can control, as desired, either **one or two doors**.

Performance Features

Connections:

see article 026593

In addition:
- Accumulator support 1 x 018002 (2.0Ah)

Technical Data

Rated operating voltage	230 V AC
Operating voltage range	230 V AC -15% to +10%
Current consumption at no-load operation w/o ext. consumers	65 mA
Operating temperature range	-5°C to +55°C
Storage temperature range	-25°C to +70°C
Environmental class according to VdS	II
Colour	grey-white, similar to RAL 9002
Housing	Plastic
Dimensions (W x H x D)	250 x 210 x 100 mm
Accumulator support	1 x 018002 (2.0 Ah)

ℹ️ If, from IQ MultiAccess V3, two doors are controlled via the door module, the number of freely usable inputs and outputs is reduced.

🔋 Power supply unit with accumulator charging connection

Configuration options

One door, one reader
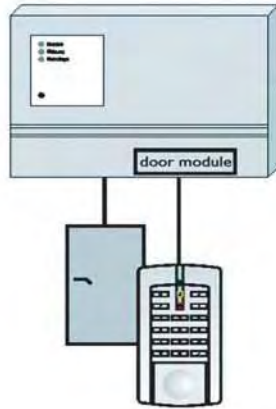
One door, two readers
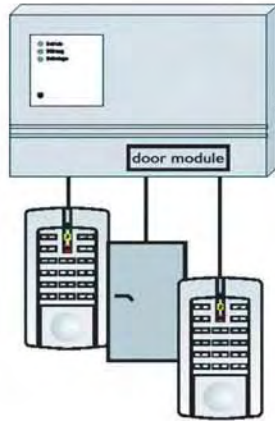
NEW from IQ MultiAccess V3:
Two doors with
one reader each

Planning Example ACS-8

Conventional connection

Connection a

e.g. Ethernet

Clock/Data

PC:
Ethernet network card

1 door
with inside and outside readers
(keypad can be connected)

Connection b

e.g. Ethernet

Clock/Data

PC:
Ethernet network card

2 doors
with outside reader
(keypad can be connected)
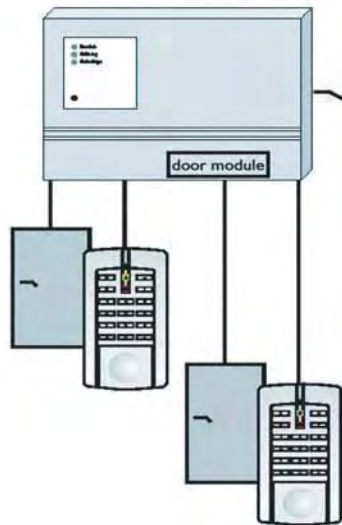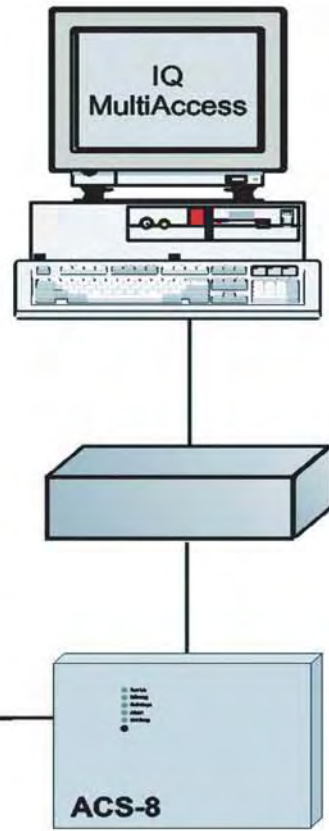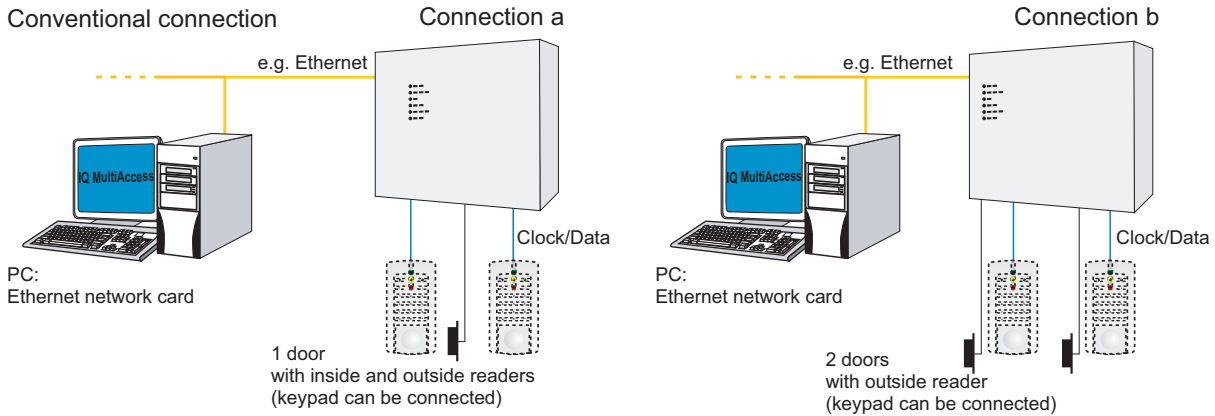
Connection via I/O modules and bus readers

8 doors maximum with
outside reader

e.g. Ethernet

RS 485

RS 485

PC:
Ethernet network card

I/O module
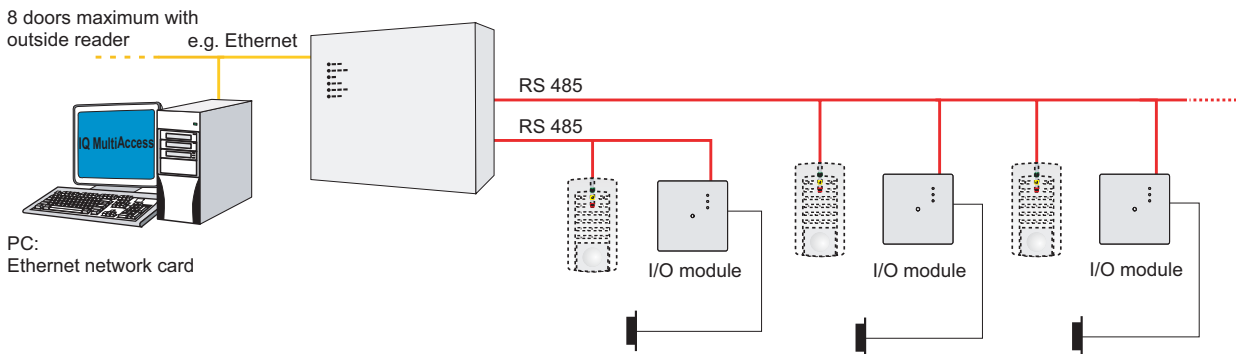
I/O module

I/O module

Connection via door modules

8 doors maximum with
inside and outside readers

e.g. RS 232

RS 485

RS 485

Clock/Data

Door module

Clock/Data

Door module

PC:
COM1 - COM16

NEW: 2nd door strike
on door module
(from IQMA V3)
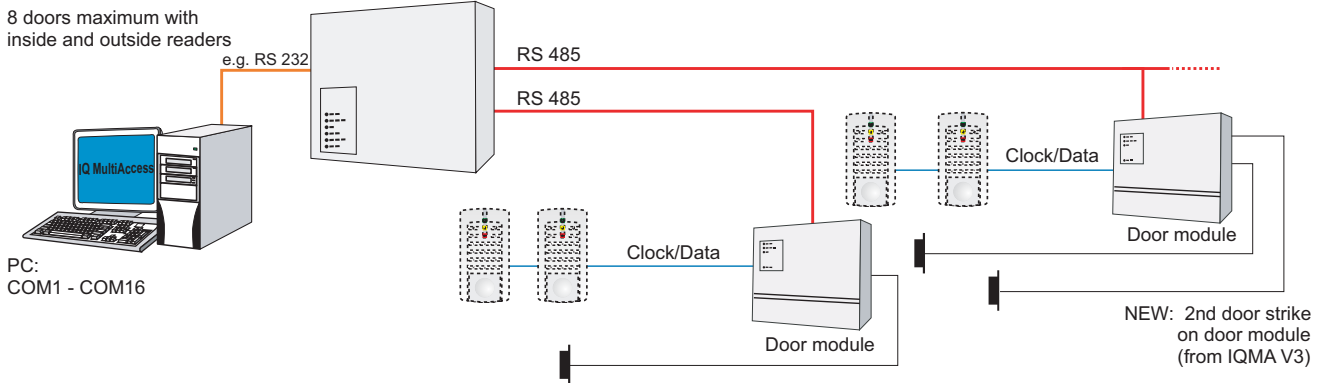
Several simultaneous connection options on an ACS-8

PC:
Internal bus controller
item no. 026816

e.g. RS 485

RS 485

RS 485

Clock/Data

Door module

I/O module

Clock/Data

I/O module

I/O module

RS 485 potentially separated up to max. 1200 m

External voltage supply

I-/O | DC / DC | 230V / 12V

Door strike voltage

Power supply

Magnetic contact

Door strike
Feedback contact
Door strike key
Bolt switching contact

RS485
RS485

Control of a door and supply by separate power supply unit (up to a cable length of max. 1200 m)

Control line

Door strike key

Reader/Keypad

Potential separation module (DC/DC) is recommended for:

- relatively long busline
- Bus line outside of buildings
- operating readers/keypads equipped with external power supply unit

Door module

RS 485 potentially separated

Magnetic contact

Door strike
Feedback contact
Door strike key
Bolt switching contact

2-wire
Clk/Data
Power supply

2-wire
Clk/Data
Power supply

Control of a door and power directly from the door module (up to a cable lenght of max. 1200 m)

Door strike key

Reader/Keypad inside

Reader/Keypad outside
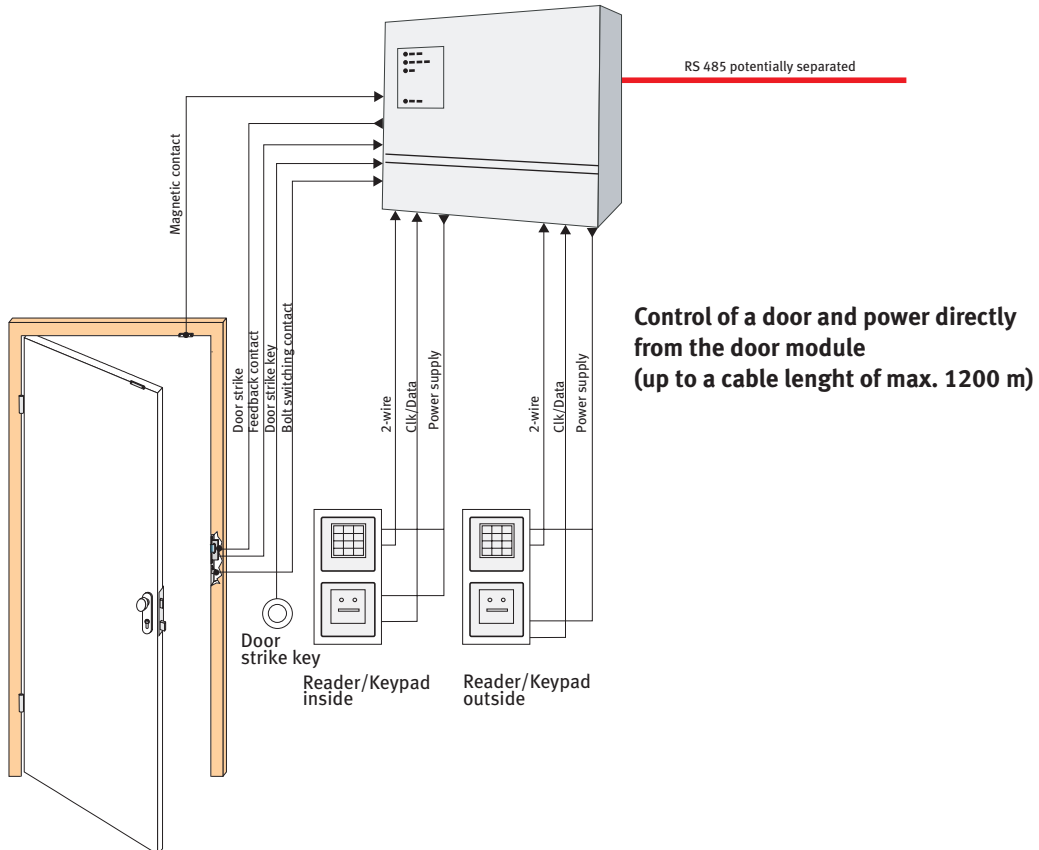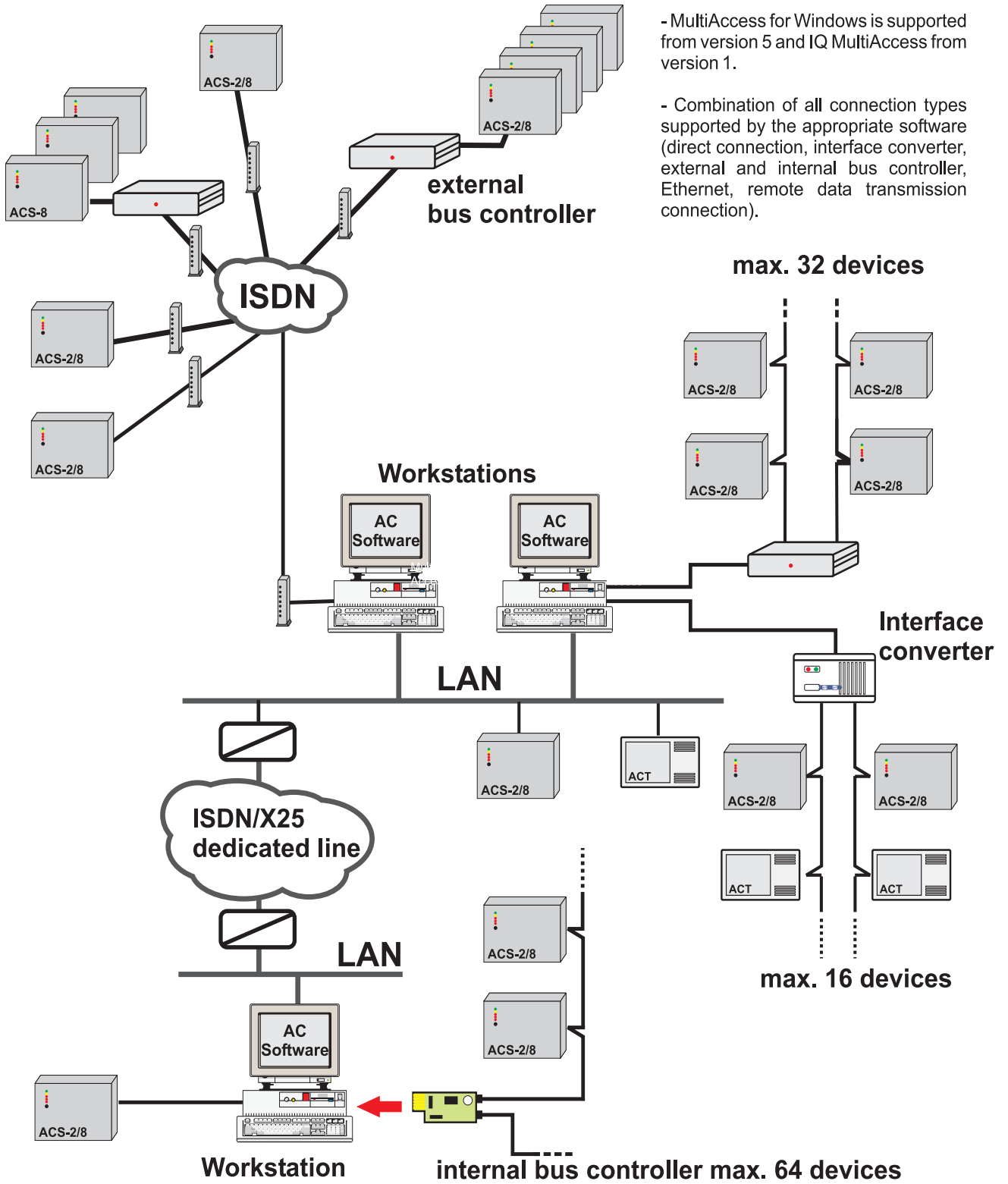
- Extension of existing systems with ACS-8 controllers possible without problems (in combination with or as replacement of existing controllers).

- MultiAccess for Windows is supported from version 5 and IQ MultiAccess from version 1.

- Combination of all connection types supported by the appropriate software (direct connection, interface converter, external and internal bus controller, Ethernet, remote data transmission connection).

ACS-2/8

ACS-2/8

ACS-8

external bus controller

ISDN

ACS-2/8

ACS-2/8

max. 32 devices

ACS-2/8

ACS-2/8

ACS-2/8

ACS-2/8

Workstations

AC Software

AC Software

LAN

Interface converter

ISDN/X25 dedicated line

ACS-2/8

ACT

ACS-2/8

ACS-2/8

ACT

ACT

max. 16 devices

LAN

ACS-2/8

ACS-2/8

AC Software

ACS-2/8

Workstation

internal bus controller max. 64 devices

Honeywell   **29**

Notes

www.honeywell.com/security/de
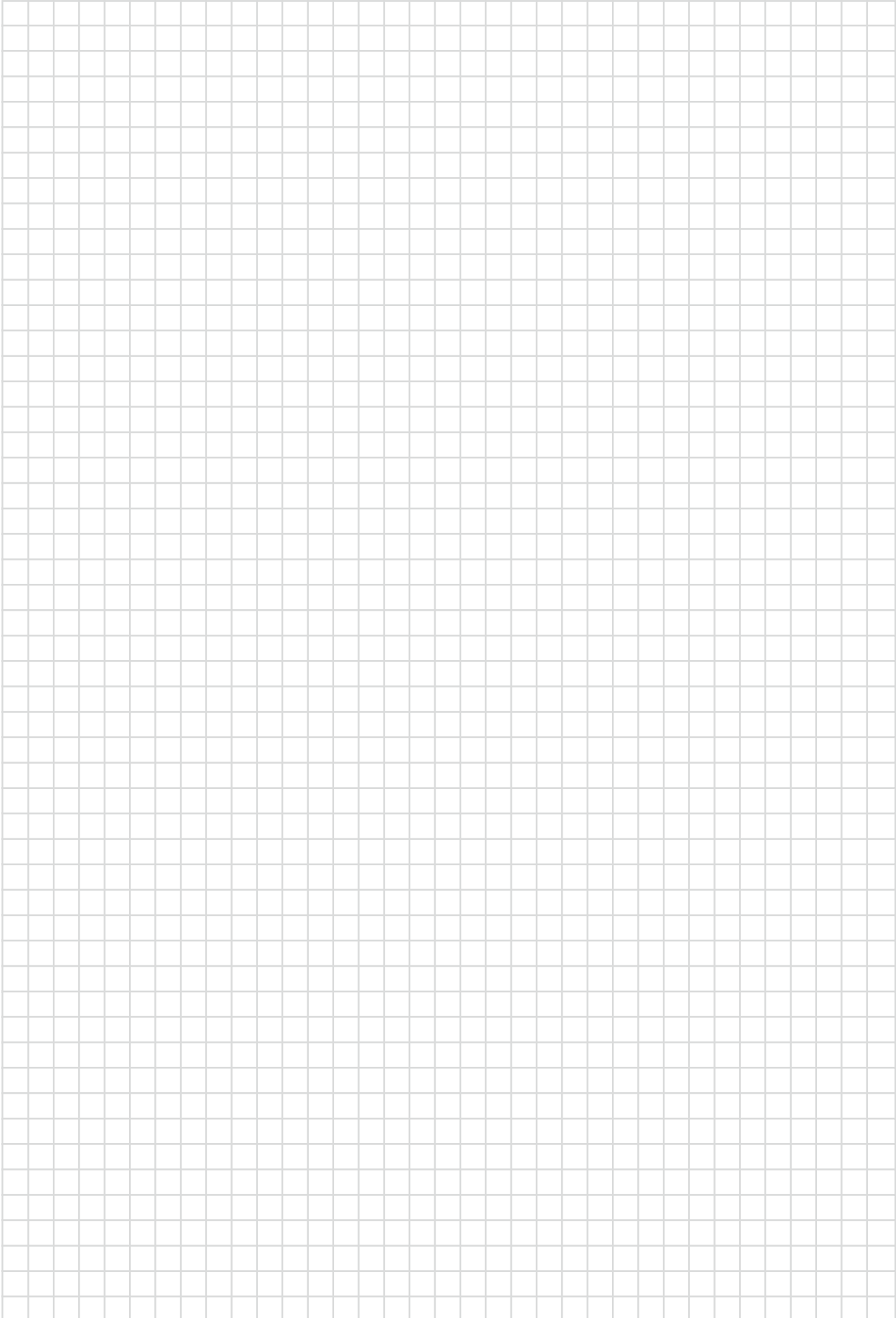
Software for Access Control Systems
MultiAccess Lite
IQ MultiAccess

Software

027009 |||||| ||||| |||| **MultiAccess Lite Demo Version**

The demo version allows you unrestricted operation of MultiAccess Lite for four weeks. After the four weeks have expired, the communication interfaces to the periphery are disabled. All other functions can still be used for demonstration purposes.

By licensing the standard system (Art. No. 027010), the demo version can be changed to a Lite version of unlimited use.

Demo version can be downloaded also from "Honeywell Security" web site.

027010 |||||| ||||| |||| **MultiAccess Lite**

MultiAccess Lite is an access control software for small- to medium-sized objects to be secured that have relatively few additional requirements.

MultiAccess Lite is a simple, clearly organised, for the most part self-explanatory interactive program.

At a glance: All important functions and information are shown on one screen page.

Focus on the essentials: All infrequently needed, complex functions were omitted for the sake of simplicity.

Investment security guarantees: Upgrade to IQ MultiAccess including all data is possible.

All known reader types such as magnetic, proximity, Legic and mifare readers can be connected.

Performance Features

- A maximum of 32 doors
- A maximum of 800 persons

Terminals

- A maximum of 16 terminals:
  - up to 16 ACTs
    (for controlling one door per terminal) or
  - up to 16 ACS-2 plus (for controlling one or 2 doors per terminal);
  - ACTs and ACS-2 plus can be combined as desired; in addition, one read-in station

Connections:

- COM 1 - 16 direct / RS 232
  (3-wire, DIN protocol)
- Interface converter / RS 485
  (5-wire, DIN protocol)
- Ethernet (TCP/IP)
- Any combinations are possible

Access rights

- General authorisation
  (can be defined individually per person / badge)
- Time-/person-dependent door authorisation
  (assignment is done individually or by groups)
  For each door, the following can be defined:
    - Cards only
    - Door code only
    - Door code and card
    - Door code or card
    - PIN code only
    - PIN code and card
    - PIN code or card
    - Permanently locked
    - Permanently open

ℹ PC requirements

027011 |||||| ||||| |||| **Upgrade from EnterpriseAccess 2000 to MultiAccess Lite**

Upgrade EnterpriseAccess 2000 to MultiAccess Lite
PC requirements as MultiAccess Lite

Application example

Installation diagram

RS 232

RS 485

Ethernet

Clock Data

Clock Daten

ACT

ACS-2 plus
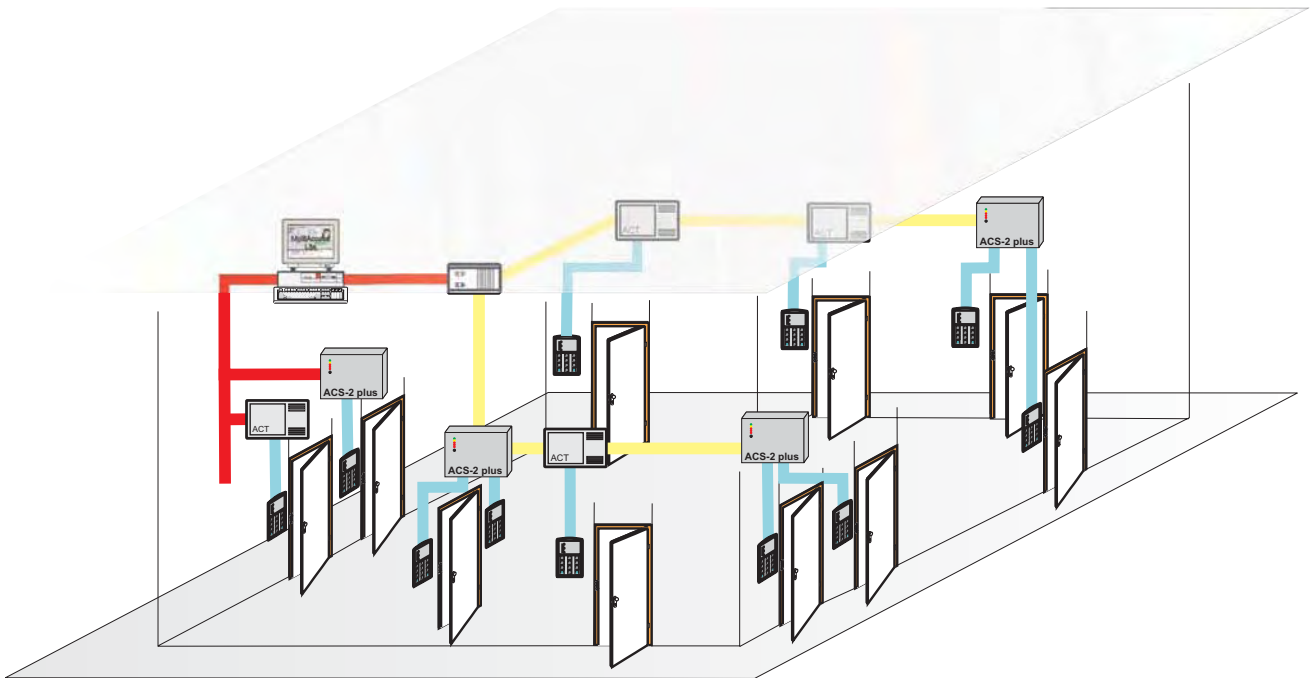
16 units maximum
for 32 doors maximum
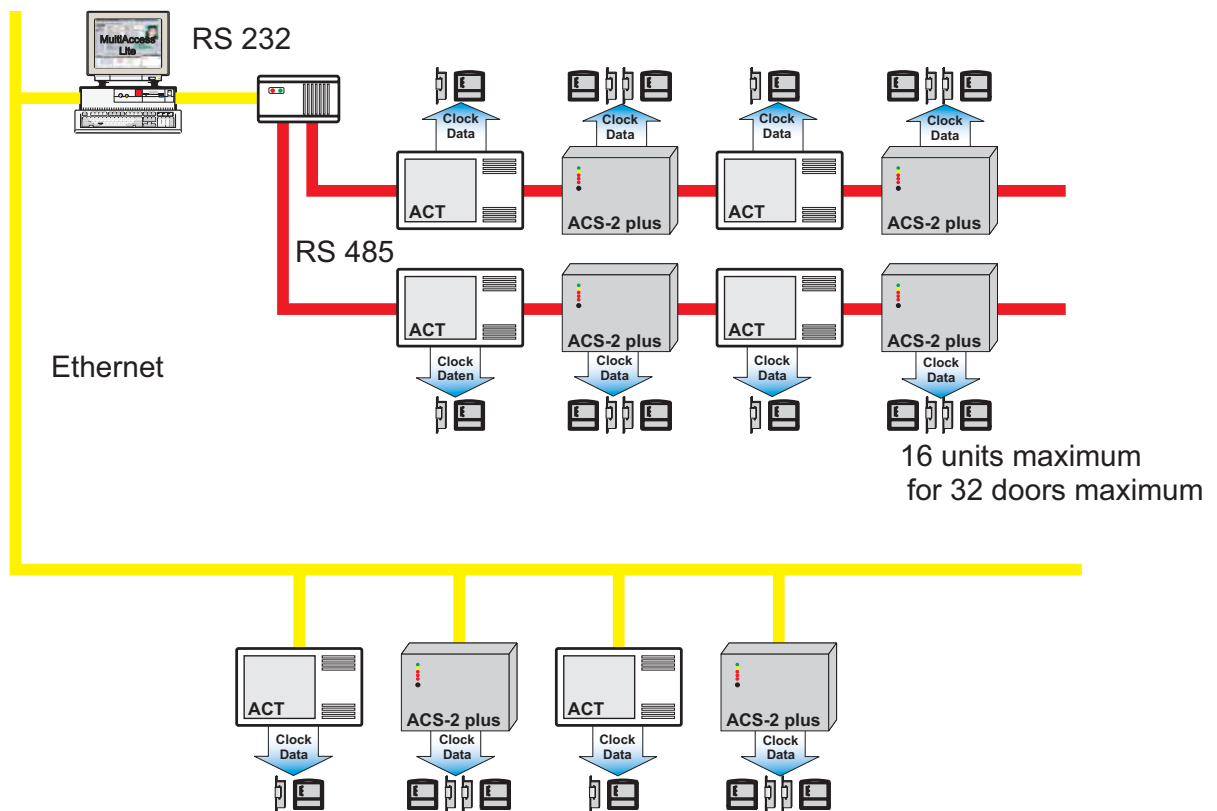
▶ **IQ MultiAccess standard package**
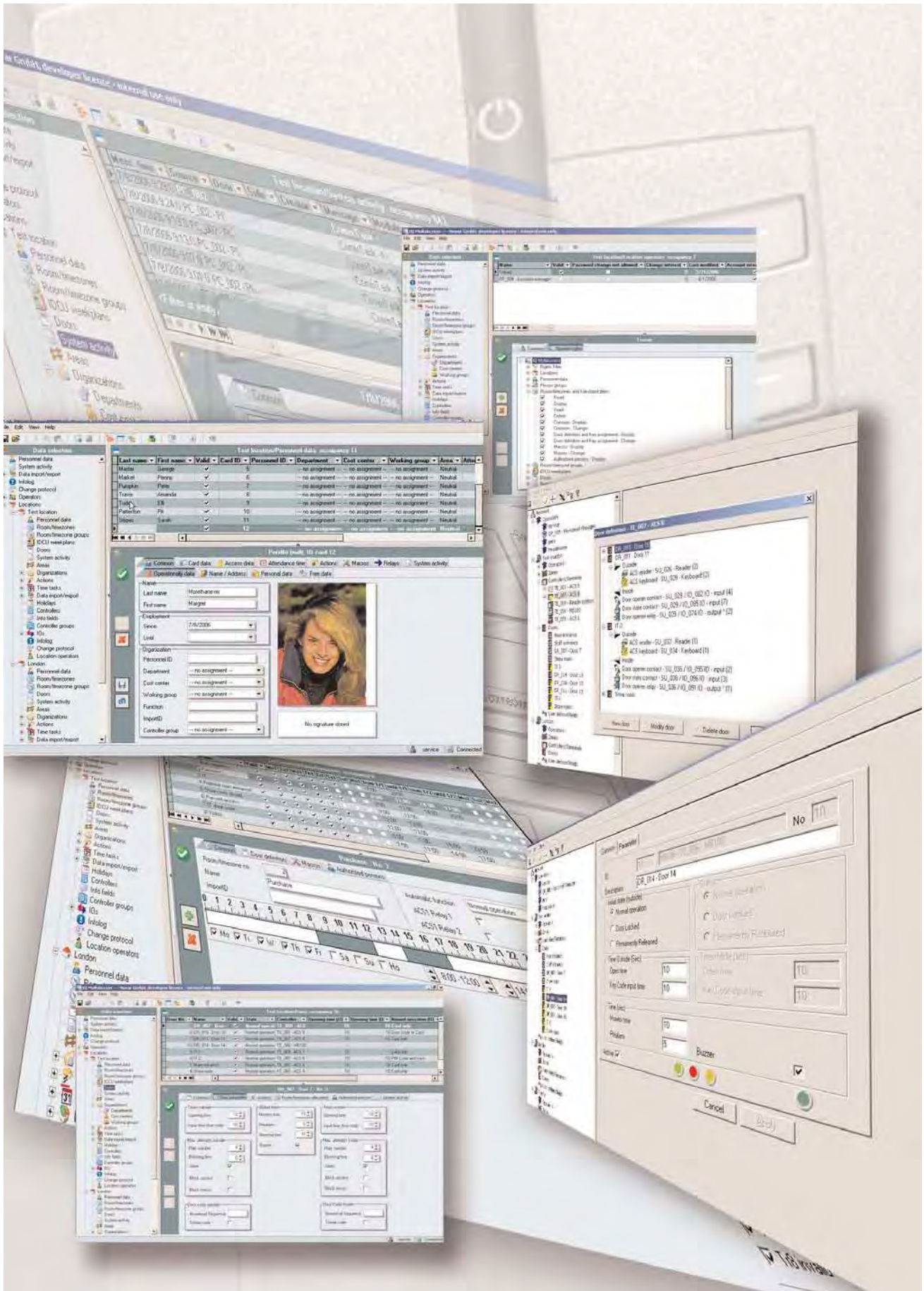
IQ MultiAccess is a completely new development and is based on a genuine **Client/Server (3-Tier) architecture** having a high-speed database connection. This makes the AC system fully scalable , thus being virtually no longer subject to **any restrictions** with respect to the number of persons, doors, areas, time zones, workstations.

The server redundancy and RAID systems give **very high availability** of the AC system. All data is transmitted with internal **encryption** and critical data is also stored in encrypted form.

The server can be operated in Windows **operating systems** as well as under Linux.

With the incorporation of **IQ NetEdit**, the hardware management was significantly upgraded, allowing to connect, apart from legacy controller ACS-1, also all current ones (ACT, ACS-2, ACS-8) and all TRS time recording terminals as well as the MB-100.10 intrusion detection panel. Since August 2006 the new time recording terminals (TRS 3000) and electronic locking cylinders (DLC) for connection to IQ MultiAccess are integrated.

The **database system** used is a free-of-charge SQL database, which is part of the standard package and is installed automatically.

To connect existing SQL database systems (Oracle, IBM-DB2, MS-SQL server), the professional package is used. This requires familiarity with relational database systems.

IQ MultiAccess supports database partitioning, that is:

a) several firms can use the same system within one building ("multi-tennant system" with separate staff data management, although, for example, the entrance area is used by all firms). This results in economic advantages, since several firms can share the purchase of one system.

b) a firm can use a system comprising several subsystems at several locations ("multi-location system"), with locally responsible site managers.

Exactly specified write-only and read-only rights can be assigned to individual users by means of detailed **access protection via passwords**. In addition, the log file will save all system programmings. This increases the security of the system against misuse.

A **user interface** designed according to the most advanced ergonomic aspects allows you to become very quickly familiar with the system. It is possible to work simultaneously in several tabbed windows, but important system messages are always in view.

Data are quickly selected via tree structures and lists, and an extensive staff master record including photo, signature and freely definable fields increases flexibility.

The access rights of the employees are entered and managed via drag´n´draw graphics or numerically.

Comprehensive **logging** allows short video sequences to be events recorded and replayed upon activating a webcam ("guard module" from V3). To filter and evaluate are done very quickly via drag 'n' drop, and the reporting tool has been extended considerably. Thus, outputs as Excel, text, HTML and XML files are now also possible.

All important access control functions from **MultiAccess for Windows** have been incorporated and extended or optimised:

For example, the antipassback control can now also be done globally via the server, if desired. The 4-eye principle (2-man rule) is now being offered with more flexibility (from V3).

The **integration** of IQ MultiAccess into other systems, such as time management systems, can now be carried out seamlessly via defined interfaces.

An **upgrade** of existing systems (MultiAccess for Windows, EnterpriseAccess, Multi-Access Lite) is done with suitable packages.

The **licensing** is now done in packages with fixed number of employees. It can then be extended step by step at any time.

▶ IQ MultiAcess standard package

Performance Features

System Description:

- Runs under Windows 2000, XP, Server 2003, Advanced Server and Linux for server
- Complete Client/Server architecture for data security, high availability and scalability
- In the standard version, unlimited number of
  - Workstations
  - Terminal groups
  - Badge groups
  - Departments, Cost Centres, Work Groups
- Per location
  - 65,500 persons
  - 999 doors
  - 512 Area/time zones

Connections:

- Controller connection via RS232, RS485, Ethernet, remote data transmission including workstations remote from the server
- Automatic scan of connected hardware
- Capable of remote data transmission
- Flexible control of the access controllers (ACS-2/ACS-8 only) via macros (programming by user possible)
- Control intruder alarm panel MB100.10 for armed/disarmed operation and AC authorisations
- Connection to read-in station for badges
- Simple self-explanatory installation routine

Security:

- Encrypted data transmission and storage

Special functions:

- New clearly organised ergonomic interface for quick familiarisation and simplified operation
- Individual sorting, filtering and grouping in all lists
- WYSIWYG print from all lists
- Export as xls, txt, htm and xml files
- Definition of visitor badges having special rights
- Public holiday calendar
- Date-related badge validity
- Multi-person access control
- Authorisation control by person-related users via individual passwords and rights

Options:

- Antipassback control, locking of repeated access, balancing (see 029622)
- Comparison of the photo of the employee requesting access with the stored photo and storage of image sequence (see 029624)
- Database partioning (see 029621)
- Integration of intruder alarm panel MB 100.10 (see 029626)

- Standard package, includes licence-free SQL database.
- Replaces MultiAccess for Windows.
- Multi-client processing and multi-location ability via locations (the standard version contains only one location, see 029621), any number of locations possible.
- Detailed logging of all system events.
- Online help
- Delivery on CD ROM

	Recommended units		Minimum size	
	Server	**Client**	**Server**	**Client**
Processor	Pentium IV 2 GHz	Pentium IV 2 GHz	Pentium IV 1 GHz	Pentium IV 800 Mhz
RAM memory	>512 MB	512 MB	512 MB	256 MB
Hard disk	>10 GB	1 GB	2 GB	512 MB
Security	RAID1 (= disc mirroring) USP (= uninterrupted power supply)		RAID1 (= disc mirroring) UPS (= uninterrupted power supply)	
Monitor equipped with suitable graphics card	19" 1152 x 864		17" 1024 x 768	
Operating system	Windows 2000 / XP / Server 2003 / Advanced Server / Linux (Server)			
Other requirements	CD drive			
	at least 1 unused serial interface			
	Mouse, trackball or other Windows compatible pointing device (PS/2 recommended)			
for network applications	Network card with TCP/IP protocol			
for remote data transmission	Modem or ISDN card certified by Novar GmbH			

Integration:

- Import/Export tool of personnel record for incorporation in or transmission to other systems (e.g. time management)
- Connection to biometric system of access control (via ACS-8)
- Interface to WINMAG or WINMAG Lite for graphic building display and alarm monitoring
- Integration of badging system as an option, (contained in the standard package as demo; enabled via software key)
- The following updates are available
  - MultiAccess for Windows V7 / SP2
  - MultiAccessLite
  - EnterpriseAccess 2000
  - NovaTime access control
- Integration with intruder alarm, escape route system, and time recording directly possible

- Integration with fire alarm, CCTV and building control via Winmag
- Integration of offline doors with e-cylinders (V4, september 2006)
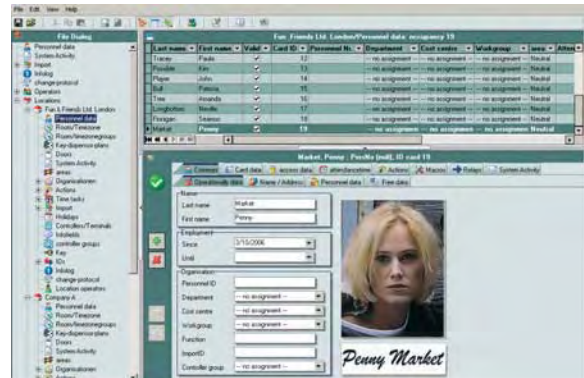
New functions with V3 (from March 2006):

- Gate keeper module option:
  - Image comparison and storing of video sequences (by Axis® TC/IP camera)
- Integration with vps badge management system including badge designer, image recording and card printing and coding
- Notification by SMS, e-mail, fax
- Interface with the award-winning visitor management system "LobbyWorks", optional native visitor management (V4, September 2006)
- Improved integration with Winmag, for example all area controls (antipassback control, counters)
- Download of the client installations via browser
- Update of the client installation from the server
- The following new ACS-8 (firmware V6) functions are supported:
  - extended balancing control
  - Man trap control
  - 4-eye principle (2-man-rule)
- The new proX2, Legic and mifare Accentic readers are also supported on RS 485
- Legic, pro X1 and mifare card motorized readers are supported

Installation diagram

Badge production

Visitor registration

Time recording video

Intrusion
Detection Technology   Escape Route
Technology
(Escape Door Controll)

Light
Blinds
Air
conditioning

Input/
Output
controls

Biometric
systems
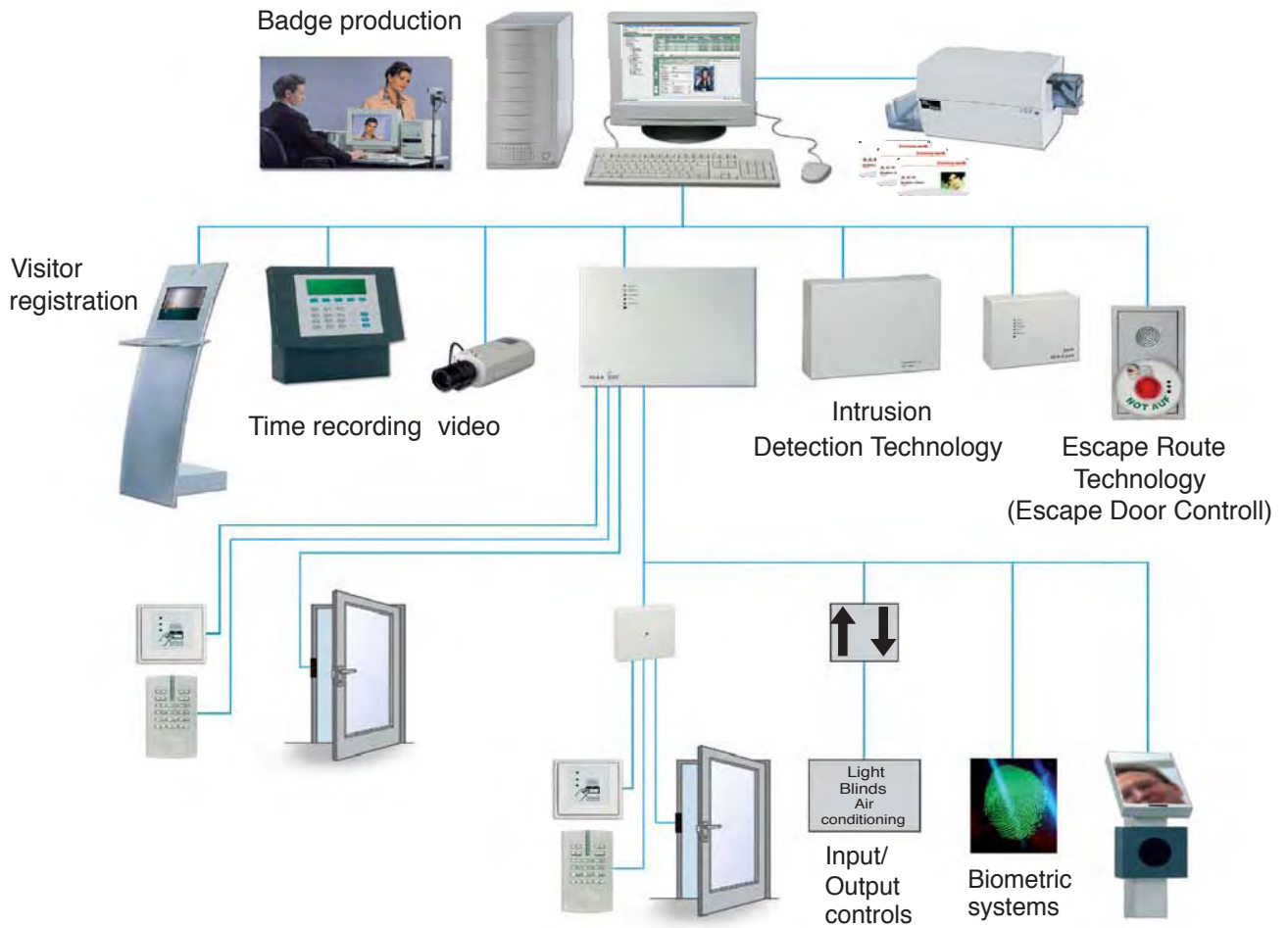
Multi-location/Multi-tennant option

Super User with access to all files

IQ MultiAccess

IQ MultiAccess

Human resources
administrates complete personal
appropriates locations (optional)

Locationmanager A
arbitrary access
to location A

Locationmanager B
arbitrary access
to location B

Locationmanager C
arbitrary access
to location A

IQ MultiAccess

IQ MultiAccess

IQ MultiAccess

Personal A

Personal B

Personal C

Access permissions A

Access permissions B

Access permissions C

▶ Administration of personal files

▶ Administration of access control
infra structure and
association of personal rights
of the different locations

Location A   **Location B**   **Location C**

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NEW   029600 |||||||||||||| **IQ MultiAccess Demo Version**

For demonstration and test purposes

- Max. 10 persons can be managed
- Communication with the access control central units is possible max. 500 days after installation
- Only available as standard package (installation with included SQL database)
- No options (several locations, antipassback, guard module incl. image comparison, badging) available
- Simple update to fully functional version (standard or professional package) possible

NEW   029601 |||||||||||||| **Standard package - IQ MultiAccess for 300 badges**

NEW   029602 |||||||||||||| **Standard package - IQ MultiAccess for 500 badges**

NEW   029603 |||||||||||||| **Standard package - IQ MultiAccess for 800 badges**

NEW   029604 |||||||||||||| **Standard package - IQ MultiAccess for 1,000 badges**

NEW   029605 |||||||||||||| **Standard package - IQ MultiAccess for 1,500 badges**

NEW   029606 |||||||||||||| **Standard package - IQ MultiAccess for 2,000 badges**

NEW   029607 |||||||||||||| **Standard package - IQ MultiAccess for 3,000 badges**

NEW   029608 |||||||||||||| **Standard package - IQ MultiAccess for 5,000 badges**

NEW   029609 |||||||||||||| **Standard package - IQ MultiAccess for 7,500 badges**

NEW   029610 |||||||||||||| **Standard package - IQ MultiAccess for 10,000 badges**

NEW   029646 |||||||||||||| **Standard package - IQ MultiAccess for more than 10,000 badges**

▶ **IQ MultiAccess professional package**

Professional package, prepared for data storage in the standard SQL database, possible for:
- Microsoft SQL Server
- Oracle
- IBM DB/2
- others upon request

Performance Features

see IQ MultiAccess standard package

Delivery on CD ROM
Online help

NEW 029631 Professional package - IQ MultiAccess for 300 badges

NEW 029632 Professional package - IQ MultiAccess for 500 badges

NEW 029633 Professional package - IQ MultiAccess for 800 badges

NEW 029634 Professional package - IQ MultiAccess for 1,000 badges

NEW 029635 Professional package - IQ MultiAccess for 1,500 badges

NEW 029636 Professional package - IQ MultiAccess for 2,000 badges

NEW 029637 Professional package - IQ MultiAccess for 3,000 badges

NEW 029638 Professional package - IQ MultiAccess for 5,000 badges

NEW 029639 Professional package - IQ MultiAccess for 7,500 badges

NEW 029640 Professional package - IQ MultiAccess for 10,000 badges

NEW 029647 Professional package - IQ MultiAccess for more than 10,000 badges

▶ **IQ MultiAccess database extension**

IQ MultiAccess licence extension

- All settings are preserved
- All data are incorporated
- for standard and professional packages
- possible later on at any time
- Simple installation via a single licence file

NEW 029611 **Database extension - IQ MultiAccess from 300 to 500 badges**

NEW 029612 **Database extension - IQ MultiAccess from 500 to 800 badges**

NEW 029613 **Database extension - IQ MultiAccess from 800 to 1.000 badges**

NEW 029614 **Database extension - IQ MultiAccess from 1,000 to 1,500 badges**

NEW | 029615 | |||||||||||||||| | Database extension - IQ MultiAccess from 1,500 to 2,000 badges

NEW | 029616 | |||||||||||||||| | Database extension - IQ MultiAccess from 2,000 to 3,000 badges

NEW | 029617 | |||||||||||||||| | Database extension - IQ MultiAccess from 3,000 to 5,000 badges

NEW | 029618 | |||||||||||||||| | Database extension - IQ MultiAccess from 5,000 to 7,500 badges

NEW | 029619 | |||||||||||||||| | Database extension - IQ MultiAccess from 7,500 to 10,000 badges

NEW | 029620 | |||||||||||||||| | Database extension - IQ MultiAccess to over 10,000 badges

▶ **IQ MultiAccess badging**

ID CardX badge production and administration
ID CardX is a system for capturing, designing, producing and managing photo badges under Windows 95/Windows NT, Windows 2000/XP.
The modular design allows the scope of services to be adapted optimally to the customer's requirements.
For complex configurations, the stand-alone system can be integrated into networks and extended using network stations and remote stations.

ID CardX - IQ MultiAccess for Windows Data Transfer
The ID CardX - IQ Multi-Access for Windows data transfer is done via transfer interface designed specifically for this application. This allows data recorded by ID CardX to be transferred automatically to the MultiAccess for Windows access control application or IQ MultiAccess for Windows personnel data to be transmitted to ID CardX for badge production.

ID CardX is a product of:
> vps Video Print Systeme GmbH
> Carl-Zeiss-Straße 2
> D-76275 Ettlingen
> Germany
> Phone:+49 (0)7243/5488-0
> Fax:+49 (0)7243/5488-11

and must be ordered directly from them.

A demo version is delivered together with IQ MultiAccess (from V3).
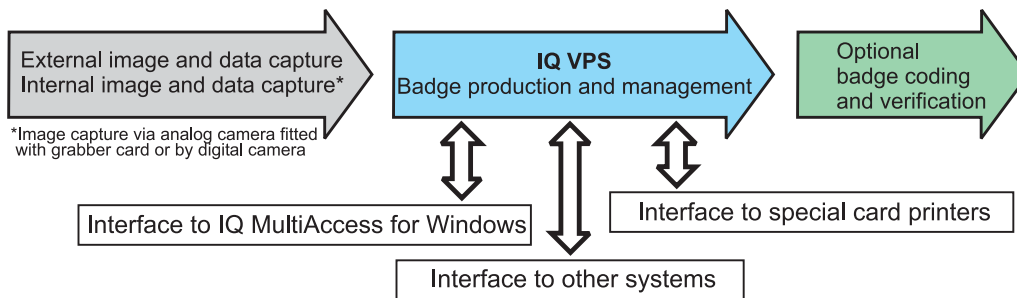
Diagram of the work sequence of badge production and management using ID CardX.

▶ **IQ MultiAccess Options**

NEW | 029621 | ‖‖‖‖‖‖‖ | **Multi-tennant, multi-location ability**

IQ MultiAccess extension package

Creation of any desired number of locations (in standard version only 1 location possible)
In addition, implementation of:
- Multi-tennant ability (several companies share one access control system in a building)
- Multi-location ability (a company is spread over several locations)

- Database partioning (companies can see only their own employees)
- All settings are preserved
- All data are transferred
- for standard and professional packages
- possible later on at any time
- Simple installation via a single licence file

NEW

029622 |||||||||||||| **Antipassback control, balancing, extended counter control, barring repeated entry**

IQ MultiAccess extension package

All functions can also be carried out globally, i.e., for ALL connected doors, via a server process, this requires a permanent server operation.

Antipassback control
- Access control central unit level
- Bus controller level
- Global level (via server)

Barring of repeated entry
- Access control central unit level
- Global level (via server)

Counting of the persons registered in the different areas (balance control), for example activation of building automation when last person has left the area, or to print out evacuation lists.

- All settings are preserved
- All data are transferred
- for standard and professional packages
- possible later on at any time
- Simple installation via a single licence file

NEW

029624 |||||||||||||| **Guard module with image comparison option**

IQ MultiAccess extension package from V3

- Automated comparison of the identity photo with the person just entering
- Special module tailored to the gate keeper's tasks
- Short video sequences of the person just entering by live camera (IP cam) possible (camera not included)
- Storage of short image sequences on hard disk

- All settings are preserved
- All data are transferred
- for standard and professional packages
- possible later on at any time
- Simple installation via a single licence file

NEW

029626 |||||||||||||| **Intrusion detection panel MB-100 interface option**

IQ MultiAccess extension package from V4 (September/October 2006)

- Management of MB-100 by IQ MultiAccess via ISDN or Ethernet
- Bidirectional data exchange between IQ MultiAccess and MB-100 (e. g. week plans and identkey authorisations like persons, badges and authorisation for access and arming/disarming)

IQ MultiAccess Upgrades

NEW

029641   **MultiAccess for Windows upgrade to IQ MultiAccess**

- Automatic update procedure
- Transfer of the following components created in MultiAccess for Windows V7.1:
  System data, hardware, device groups, macros, departments, calendar days and public holidays, time zones and automatic zones, personal record, actions, doors
- Uses the option packages already purchased for MultiAccess for Windows
- Update to the same or the next higher number of staff
- for update to standard and professional packages
- Updates of predecessor versions of MultiAccess for Windows V7.1 must be performed previously on V7.1 and are included in the package.

NEW

029642   **Upgrade MultiAccess Lite to IQ MultiAccess**

- Automatic update procedure
- Transfer of the staff records stored in MultiAccess Lite
- Transfer of the created access control central units and doors
- Update to 800 persons
- for update to standard and professional packages

NEW

029645   **Upgrade IQ MultiAccess V1 or V2 to V3 or V4 (September 2006)**

- Automatic update procedure
- Uses the selected SQL database
- Transfer of the stored personnel records
- Transfer of the created access control central units and doors
- Uses the already purchased option packages
- Update to the same number of staff
- for update to standard and professional packages

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Functional diagram of the guard module with image comparison

Comparison of the live picture of the webcam...

... with the photograph stored in the personnel records

| Last name | McNeal |
| First name | Martha |

Employment
Since   7/8/2006
Until

Organization
Personnel ID   1230
Department   1 = Purchase
Post center   3 = Sales office
  --- no assignment ---
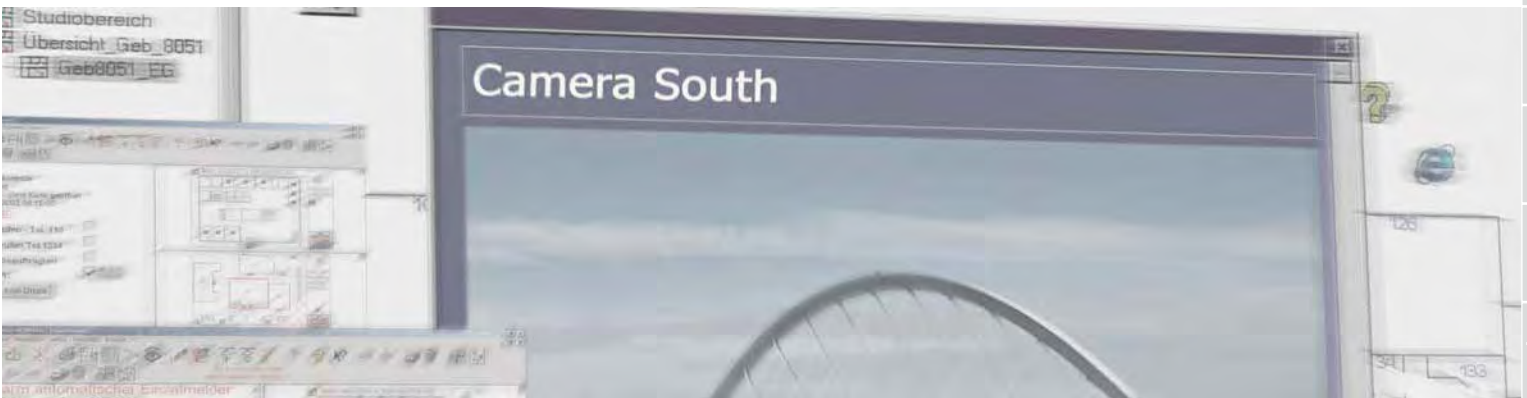
Management Systems
   LobbyWorks Visitor Management
   WINMAG
   WINMAG Lite

▶ **Visitor management software**

NEW

029700 ||||||||||||||| **Small visitor management professional edition**

Stand-Alone version (not usable in networks). LobbyWorks server and LobbyWorks Front Desk Application are installed on a machine. Software options such as Kiosk, Web Centre or Visitor Notification can be used.
CANNOT be integrated with IQ MultiAccess.

NEW

029701 ||||||||||||||| **Visitor management usable in networks - standard edition**

Honeywell
Software

Performance Features

- Calendar integration of MS Outlook®
  or Lotus Notes®
- Visitor pre-registration
- Visitor authorisation
- Visitor blacklist
- Visit notification
- List of visitors
- Visitor check
- Standard and customer-specific reports
- Single- or multi-client application
- Single- or multi-locations
- Single or multiple inputs/outputs
- Badge layout preparation
- Badge printout
- Scanning business cards and different ID cards
- Smart name comparison
- Simultaneous registration steps
- Multilingual capability
- Telephone integration
- Integration Active Directory
- Inventory tracking
- Monitoring deliveries
- Server Support:
  - Database: MSDE or SQL Server
- Web: MS IIS (Internet Information Server)
- Email: SMTP
- Calendar: Microsoft® Exchange
  IBM Lotus Notes®
- Supported operating systems:
  - Windows® 2000 Server

LobbyWorks is a comprehensive visitor management system providing companies of a wide range of types and sizes with new functionalities of managing visitors, while being simple to manage and offering a high security standard.
LobbyWorks offers you security even before the visitor arrives. The host being visited can register a visitor or a group of visitors for a special occasion/event beforehand via the LobbyWorks Web Centre (option). In addition, users can register their visitors beforehand while planning an event using the the calendar integration of Outlook® or Lotus Notes®.
For previously registered or returning visitors, the badges can already be ready and only require registration. For new visitors, LobbyWorks will scan a visitor's ID (business card, ID card, etc.), take a picture or a signature, cross-check it against the company's blacklist and print out the visitor-specific badge on any Windows® compatible printer, such as B/W thermo printers, colour ink jet or laser printers, or special dye sublimation badge printers. During registration, all visitor data are cross-checked against a company blacklist. The message of a visitor's arrival can be sent via LobbyWorks to the host either via a popup window showing the photo and the visitor's details on the host's workstation (visitor notification option), via e-mail, fixed line network or mobile phone. The host can authorise the visit by mouse click.
During the duration of the visit, LobbyWorks continuously checks whether the visitor has logged out. LobbyWorks has standard reports, for example for frequent, returning visitors, access attempts by persons on the company blacklist, trends of streams of visitors per building or department, visitors that have not logged out, badges that were not returned, and many more. The system makes it easy to prepare customer-specific reports.
For unattended entrance or reception areas getting many visitors, a self-registration station (Kiosk option for self-registration) is optionally available, which will guide the visitor through the input of visitor data via a touchscreen and text output.
The networkability of the system allows an automatic data and information comparison between several servers and thus between several input/output areas.

The software includes: Front Desk software - for use in networks, software for: Scan of business cards, photos, driver's licence, report generator, administrator software, a workstation licence, inventory and delivery tracking, integratability in MS Outlook® and Lotus Notes®.
Supports the software options: workstation extension, kiosk for self-registration, Web Centre, visit notification, report generator for workstation extension.

Integration with IQ MultiAccess from V4.

Accessories
- Business card and ID card scanner
- Printer
- Stationary terminal for visitor self-registration
- Web cameras
- Signature pads

... are available upon request

NEW

029702 ||||||||||||||| **Workstation extension**

LobbyWorks Front Desk workstation extension - for use in networks. For the simultaneous use of the LobbyWorks application at several workstations. Same functions and licences as LobbyWorks standard edition, but without a report generator licence.

► **Application diagram**

1. Scan
2. Detect
3. Notify
4. Print
5. Track

NEW | **029703** | ‖‖‖‖‖‖‖ | **Kiosk for self-registration**

Performance Features

- Multilingual capability
- Available via additional hardware components:
  Scanning of business cards and different ID cards, touchscreen,
  text output, picture taking, barcode scan
- Supported operating systems:
  - Windows® 2000, SP4
  - Windows® XP, SP1

LobbyWorks Kiosk software for self-registration in connection with visitor management for use in networks - standard edition
For unattended entrance or reception areas getting many visitors, a self-registration station (additional hardware) is optionally available, which will guide the visitor through the input of visitor data via a touchscreen and text output.
Can be used as stand-alone or network configuration.

NEW | **029704** | ‖‖‖‖‖‖‖ | **Web Centre**

LobbyWorks Web Centre (unlimited number of users).
MS SQL 2000 and the LobbyWorks standard edition are required. Includes the following software components:
Pre-registration - authorised employees/hosts can pre-register expected visitors and suppliers (Intranet).
Calendar integration – authorised employees/hosts book appointments in the calendar of Outlook® or Lotus Notes®.
List of visitors including photo & text - web-based visitor list/information in real-time for authorised personnel via the in-house Intranet of each valid workstation.
Visitor ID card check via photo & text - check of visitor ID cards and reporting of the visitor status of each PDA enabled for the Internet.

NEW | **029705** | ‖‖‖‖‖‖‖ | **Visit notification**

LobbyWorks visit notification (unlimited number of users per location).
Desktop plug-in for real-time information on the host's workstation.
Photo popup and visitor information and visitor authorisation by the host.
In the absence of this function, this information is passed to the host by mail or phone.

NEW | **029706** | ‖‖‖‖‖‖‖ | **Report generator for extended evaluations**

Additional software option, for example for workstation extension (029702).
Allows authorised personnel to generate detailed visit listings, reports and graphics for each employee, department, building or company on a daily, monthly or yearly basis.
Included in the standard software of visit management (029700 and 029701).

NEW | **029707** | ‖‖‖‖‖‖‖ | **LobbyWorks Demo Version**

LobbyWorks demo software - LobbyWorks CD including all functions of the standard edition – validity: 30 days

Honeywell   **47**

Software Management System for Fire & Security Alarm Systems

Software Management System for Hazard Alarm Systems

WINMAG is a PC-based management system developed especially for the requirements of hazard detection technology.

WINMAG manages and visualises the fields of intrusion detection technology, fire detection technology, access control technology, video technology, escape route technology/escape door control under a uniform user interface. The database and user interface are structured according to common standards. Messages are displayed graphically and in text form.

The WINMAG options in terms of application technology are wide-ranging. They range from clearly organised messages to the active control of all signalling components.

Based on our IGIS-Loop and essernet® security networks, WINMAG is a professional and comfortable visual information and management solution.

The program:

Through its modular design, WINMAG provides software suitable for every system size and every field of application. The product range goes from the WINMAG standard package for single-station systems to the upgrade software from GEMAG to WINMAG. Licensing enables the purchased program options and authorises the use of the program. The licence comes with a copy-protection plug (dongle), which is plugged into a parallel interface or a USB port of the WINMAG computer.

In a multi-station system, each computer containing transponders requires a copy-protection plug. Workstations which do not have a connection of their own do not require a copy-protection plug.

The licence is for one release version (up to version 7). When changing to a new WINMAG main version (changing the first number, for example, from V4.x to V5.x), the licence must be updated to the current version. For the updates of versions prior to V6.0 to versions from V6.0, a copy-protection plug will be produced automatically. When the copy-protection plug is removed with the program running, WINMAG will run at most for another 72 hours in the online mode.

Performance Features

- Compatible with Windows 2000 or Windows XP Professional
- Modular design and free programmability
- Direct control of the users in the network
- Sequence of measures for service personnel
- Individual assignment of user rights - priority control
- Simulation functions integrated
- Extensive logging of events and operations
- Visualisation of messages
- Up to 12 active graphics can be displayed simultaneously
- Integration of video sequences possible
- Output of information via Window print manager to several printers, etc.
- Time programmes/calendar function
- Standard feature via integrated database
- Other programs can be activated while in WINMAG
- Powerful programming language SIAS for customer-specific adaptation of the interface and sequences in case of alarm
- Via modem also remote control possible (option)
- Redundancy

ℹ️ Hardware and software requirements:
Pentium 1000 MHz or higher, min. 256 MB RAM, min. 1 GB free hard disk memory, XGA graphic card of min. 4 MB video memory, monitor of min. 1024x768 pixels, sound card with external loudspeakers, Windows 2000 or Windows XP Professional, Internet Explorer from version 4.0.

013600   **CD monitoring software WINMAG standard package**

CD containing the WINMAG monitoring software for hazard detection systems, excluding licence, compatible with WINDOWS 2000 or Windows XP Professional.

The standard software plus the appropriate licences allows you to manage and operate hazard detection systems via a PC.

Hazard messages are displayed in text form and graphically. This makes it possible to use the PC also as an electronic emergency plan.

From WINMAG version 8, this software can also be used as upgrade (only for existing WINMAG installations higher than or equal to version 6).

ℹ️ The WINMAG standard package will work without licence for demonstration purposes for 20 eight-hour days as full version with central connection and will then switch back to the demo mode.
After expiry of the test period, the connection to connected components will be disabled. A start in the offline mode will not reduce the number of online test runs.
The demo mode is a viable editing interface. All components will work with the exception of importing messages. Via simulation, every sequence can be tested even in the demo mode and all editing functions can be used.

Upgrade packages

013620 ‖‖‖‖‖|‖‖‖‖‖ **Upgrade of a GEMAG installation**

Upgrade of a GEMAG installation to WINMAG control centre software

An existing GEMAG installation (MS-DOS) can be upgraded to WINMAG.
As proof of upgrade, the GEMAG copy-protection plug must be returned.

ℹ This upgrade includes a dongle plus the licences for fire detection and intrusion detection technologies and four clients. For extensive systems, an individual offer must be requested. The upgrade does not contain conversion tools for data transfer. Conversion tools are only available separately.

013622 ‖‖‖‖‖|‖‖‖‖‖ **Upgrade of a WINMAG installation smaller than version 6**

Upgrade of a WINMAG installation to the latest WINMAG control centre software.

An existing WINMAG installation smaller than version 6 can be upgraded to the latest WINMAG control centre software. For each installation including a dongle (each PC that must be enabled), a separate upgrade must be ordered.

ℹ Please specify the licence number of the standard licence when ordering.

Standard licences

013630 ‖‖‖‖‖|‖‖‖‖‖ **WINMAG monitoring software standard licence**

WINMAG monitoring software standard licence including copy-protection plug for the parallel port.

This standard licence is for enabling the standard package/demo version as unlimited visualisation software on server workstations and on clients in the network.
To connect control centres to server workstations, further licences are required (see 013601 - 013606, 013608, 013611 - 013613, 013625).

▣ Copy-protection plug (dongle) for the parallel port

013631 ‖‖‖‖‖|‖‖‖‖‖ **WINMAG monitoring software standard licence**

WINMAG monitoring software standard licence including copy-protection plug for USB port.

This standard licence is for enabling the standard package/demo version as unlimited visualisation software on server workstations and on clients in the network.
To connect control centres to server workstations, further licences are required (see 013601 - 013606, 013608, 013611 - 013613, 013625).

▣ Copy-protection plugs (dongle) for USB port

▶ **Extension licences**

013609   ‖‖‖‖‖‖‖‖‖   **WINMAG monitoring software later extension**

This ordering number is an auxiliary number for a later option extension (e.g. additional client or later enable of video technology) for an existing WINMAG installation from V6.0. The appropriate licences must be ordered additionally.

ℹ️ Information regarding the licences in question:
Only one licence each is required for connecting any desired number of detection central units to a PC. These licences can be ordered separately (later on) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013601   ‖‖‖‖‖‖‖‖‖   **Intrusion detection licence**

Option for the WINMAG standard software It is required when intrusion detection technology units are to be connected to WINMAG.

ℹ️ This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given. The licence is for connecting the Honeywell intrusion detection systems MB/HB, 5008.

013602   ‖‖‖‖‖‖‖‖‖   **Fire detection licence**

Option for the WINMAG standard software It is required when fire detection technology units are to be connected to WINMAG.

ℹ️ This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given. The licence is for connecting the Honeywell fire detection systems 1024, 1016 and 8000.

013603   ‖‖‖‖‖‖‖‖‖   **Access control licence**

Option for the WINMAG standard software It is required when access control technology units (e.g. ACS 2 and ACS 8) are to be connected to WINMAG. This requires the MultiAccess or IQ MultiAccess software.

ℹ️ This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given. The licence is for connecting the Honeywell access control systems ACS and (IQ) MultiAccess.

013604   ‖‖‖‖‖‖‖‖‖   **CCTV licence**

Option for the WINMAG standard software It is required when WINMAG video technology units are to be operated. The crossbars are capable of executing commands such as pivoting, zoom, tilting, monitor selection, etc., depending on the model. The following video matrixes have previously been supported: Honeywell Fusion; Honeywell MaxPRO 32; Philips LTC 8x00; Geutebrück Vicrosoft; Geutebrück Multiscope; Ernitec M 500 and M 1000; VisiOprime; further brands upon request.

ℹ️ This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013605 Escape route / escape door control licence

Option for the WINMAG standard software It is required when escape route technology/escape door control WINMAG units (e.g. Honeywell) are to be operated. The status of escape doors is shown graphically.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given. The licence is for connecting the Honeywell escape route technology/escape door control.

NEW

013623 DEZ 9000 interface licence (October 2006)

Option for connecting the remote operating central unit DEZ 9000 to the WINMAG system. The connection also allows applications to be enabled that work with the VdS-2465 transmission protocol on the WINMAG system.

013608 WINMAG remote data transmission licence

Option for the WINMAG standard licence Allows WINMAG to be operated via modem lines using DS 7500 and DGA 2400 on Esser intruder and fire alarm panels.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

▶ **Connection Server**

013606 ConnectionServer licence

Option for the WINMAG standard software The ConnectionServer is a software module that allows an external panel or network to be connected to WINMAG. The ConnectionServer offers a comfortable interface that allows data and controls to be exchanged bidirectionally in the detection point format with WINMAG.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013607 ConnectionServer development package

This Developer Kit allows developpers to program WINMAG connections to third party systems. This package contains the ConnectionServer Developer Kit including the complete documentation plus one day of support at the factory in Albstadt.

OPC and BACnet

| 013590 | ‖‖‖‖‖‖‖‖‖‖ | **Universal Gateway for PC** |

Software gateway as stand-alone solution for providing data points to master control centre systems via OPC, ESPA, BACnet. Additional engineering support is required.

ℹ The article 013590 can only be ordered in connection with data point packages article 013618. For a BACnet connection, the article 013627 must be ordered in addition.

| 013618 | ‖‖‖‖‖‖‖‖‖‖ | **Data point package** |

Package of 500 data points for project-related provision of OPC tags, ESPA data points or BACnet objects.

ℹ The OPC/BACnet can only be ordered in connection with the OPC Server licence 013590 for PC or the OPC Server licence 013611 or the BACnet Server licence 013627.

| 013611 | ‖‖‖‖‖‖‖‖‖‖ | **OPC Server licence** |

Option for the WINMAG standard software It is required if WINMAG is to function as OPC server.

ℹ The OPC server licence can only be ordered in connection with the data point package option (013618).
This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

| 013612 | ‖‖‖‖‖‖‖‖‖‖ | **OPC Client licence** |

Option for the WINMAG standard licence It is required when WINMAG is to represent data from units equipped with OPC interfaces.

ℹ This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

| 013627 | ‖‖‖‖‖‖‖‖‖‖ | **BACnet Server licence** |

Option for the WINMAG standard licence It is required when WINMAG data are to be transmitted via BACnet. This option requires additional engineering support by Honeywell.

ℹ This licence can only be ordered in connection with the data point package option (013618).
This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

► **Options**

013613 ▏▎▍▏▎▏▍▍ **Notification licence**

Option for the WINMAG standard licence It is required when SMS, fax or e-mail are to be sent from WINMAG.

ℹ This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given. The notification functions requires an ISDN connection (S0) and an ISDN card.

013650 ▏▎▍▏▎▏▍▍ **Escalation licence**

Option for the WINMAG standard licence It is required when SMS sent from WINMAG are to be acknowledged. If they remain unacknowledged, a pre-programmed escalation plan will start.

ℹ This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given. The escalation licence requires the notification licence 013613. The function requires a sound card in the PC.

013651 ▏▎▍▏▎▏▍▍ **DTMF control option licence**

Option for the WINMAG standard licence It allows control sequences to be carried out by DTMF. In this case, it is, for example, possible to control outputs of the system connected to WINMAG by mobile phone.

ℹ This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013652 ▏▎▍▏▎▏▍▍ **Client processing ability licence**

Option for the WINMAG standard licence that allows you to assign individual interfaces and rights to several users.

ℹ This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013660 ▏▎▍▏▎▏▍▍ **WEBX licence**

Option for the WINMAG standard licence Allows a display of all system statuses via the Internet or Intranet using standard browsers (max. 5 browsers). The dial-up connection to the Internet is done via the safety portal "esafetynet".

ℹ This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013624   ‖‖‖‖‖‖‖   **Redundancy licence**

Option for the redundant connection of the essernet and IGIS-Loop safety networks to a WINMAG server. The redundant network connection works in the master/backup mode and protects the WINMAG objects from data loss when the network connection is interrupted due to cable defects or when a COM port failure occurs.

013625   ‖‖‖‖‖‖‖‖   **WINMAG Client licence**

Option for the WINMAG standard licence Allows a client to be operated in a computer network at a server workstation. The licence must be installed at the server workstation. For each client, only the WINMAG software is required. For each client, one WINMAG Client licence each is required.

> ⓘ This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

Application examples of the WINMAG user interface
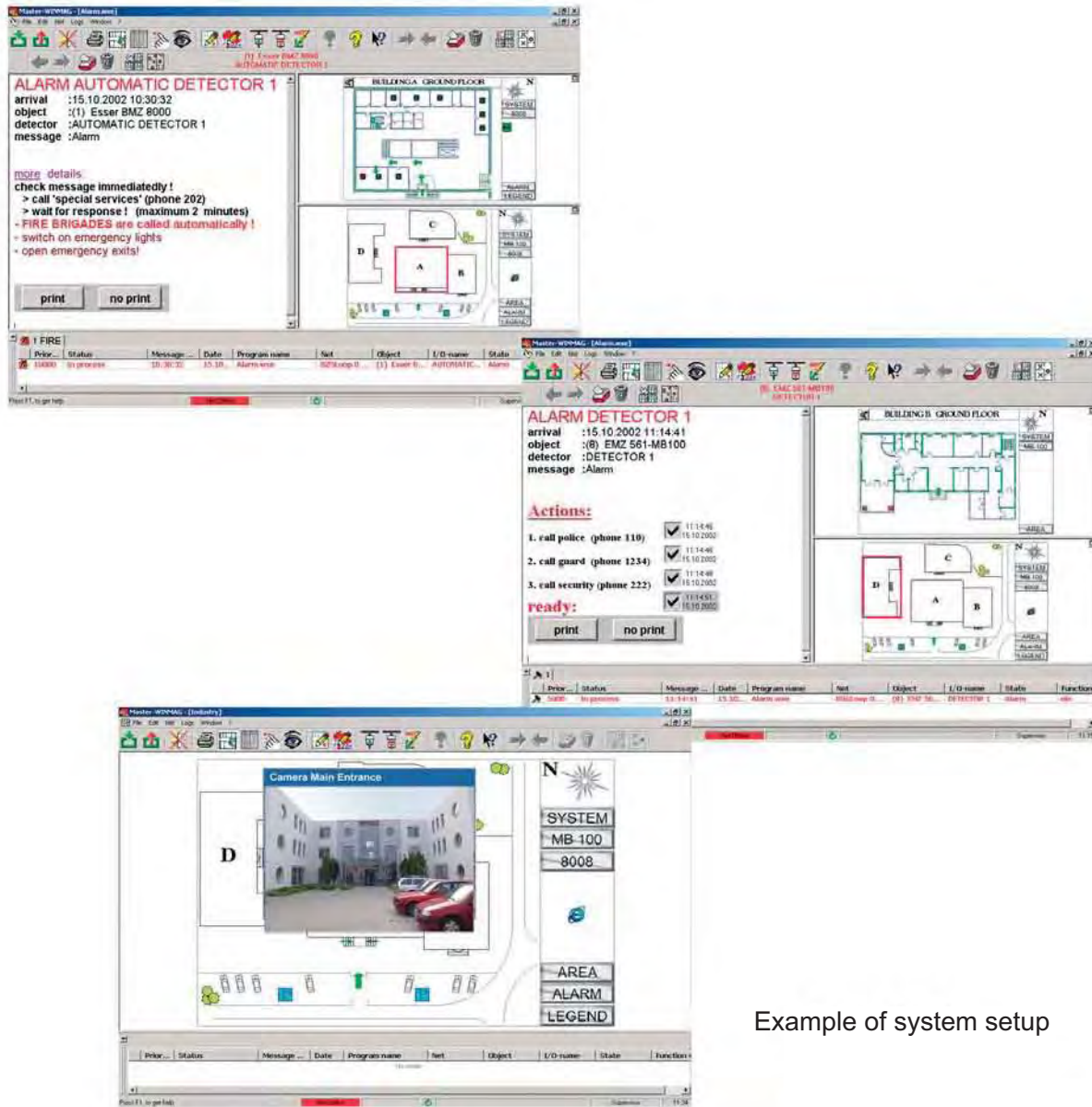
Example of system setup
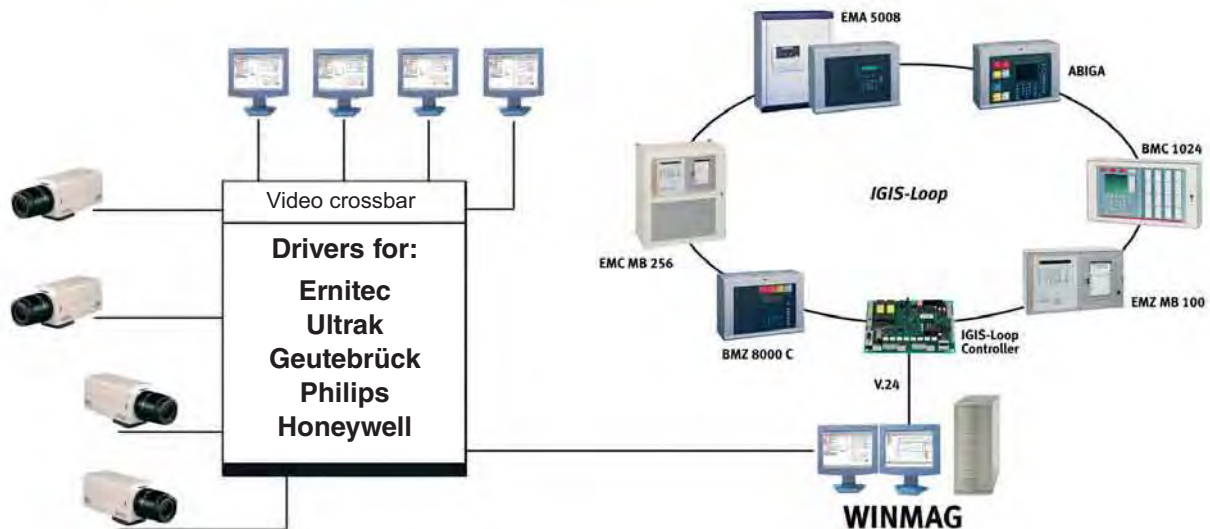
013635   ‖‖‖‖‖‖‖‖‖   **WINMAG Lite including USB copy-protection plug**

Performance Features

- Low-cost management software for hazard detection systems
- Visualisation and control of **only one hazard detection central unit** (fire, intruder, access control, escape door)
- Visualisation and control of video management systems VisiOprime or Fusion
- Management of up to 500 detection points per object
- Processing of up to 100 messages per second
- Processing of up to 100 macro sequences
- Connection of log and alarm printers
- Information output via monitor and/or printer (Windows standard printer)
- Adjustable program background
- Flexible, window-oriented graphics
- Displaying and finding detectors in graphics
- Displaying the current situation
- Predefined alarm message
- Simulation function
- Extensive logging of events and operation

WINMAG Lite is the low-cost entry into the management of hazard detection systems. It is easy to use, and its predefined, practice-related control unit and detection point types facilitate the startup and operation of WINMAG Lite.

WINMAG Lite is highly suitable for small systems for which in the near future no large extensions or no link-up of further hazard detection central units are planned. Thus, the Lite version offers a wide range of applications even to WINMAG professionals.

The combination of a hazard detection system with the Honeywell video management systems Honeywell Fusion and VisiOprime allows especially small objects to be secured in a professional manner. WINMAG Lite provides the user with almost all WINMAG standard functions. In contrast to the full version, first only one hazard detection central unit can be connected.

The user makes use of predefined programs, which can be adapted to the situation at hand on-site by means of a text editor.

The alarm stack known from previous WINMAG versions is replaced by the message display in the head bar in the form of icons. This new performance feature improves clarity for the user and thus allows faster reaction times in case of alarm.

ℹ Hardware and software requirements:
Pentium 1000 MHz or higher, min. 256 MB RAM (128 MB recommended), min. 200 MB free hard disk memory, XGA graphic card of min. 4 MB video memory, monitor of min. 1024x768 pixels, sound card with external loudspeakers, Windows 2000 or Windows XP (Home or Professional), Internet Explorer from version 4.0.

The support for the startup, creation of applications and the registration of problems for WINMAG Lite is done exclusively via a separate hotline, which you can reach between 08:00 am and 04:00 pm from Mon-Thu and Fridays between 08:00 am and 01:00 pm under the phone number +49 (0) 900 - 1100987 (calls are charged at 1.29 €/min.).

🚚 CD control centre software WINMAG standard package (013600)

013636   ‖‖‖‖‖‖‖‖   **WINMAG Lite upgrade to WINMAG full version**

Once the system limits of WINMAG Lite have been reached, an upgrade to the full version is possible without problems, since both systems access a common database.

ℹ WINMAG options are not part of the upgrade and must be ordered separately.

Application example of the WINMAG Lite system interface

WINMAG Lite graphic view
without message

WINMAG Lite graphic view in a
state of alarm (fire alarm)

2 Smoke detector is shown in green
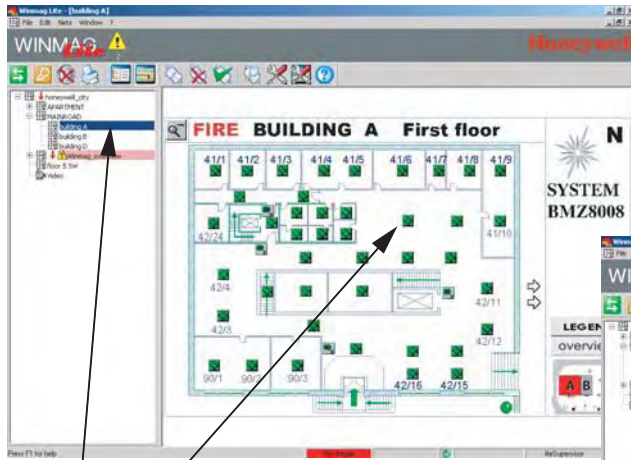
1 Marked area is shown in blue
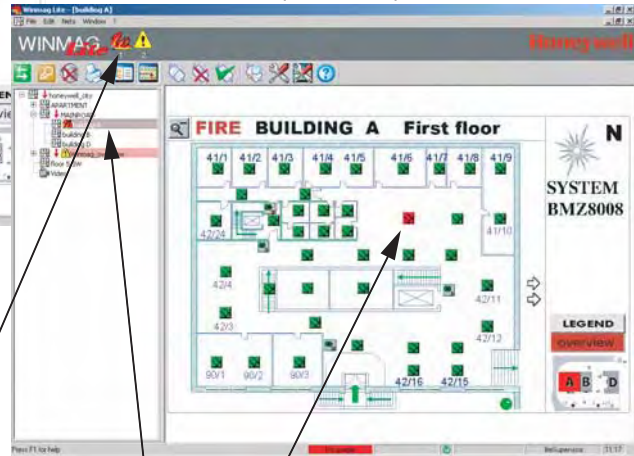
Icon for fire alarm appears in the top line **1**

Marked area is shown red **2**

3 Smoke detector is shown in red

Application example of the WINMAG Lite system design

4

WINMAG Lite

Central unit

FDA
or
IDA
or
ERT
or
AC

Upon clicking the fire detector icon, an **3**
alarm message is displayed:

Text block 1

Text block 2

The messages contains two individually adjustable
text blocks for action and telephone numbers.

e.g. Fusion digital recorder
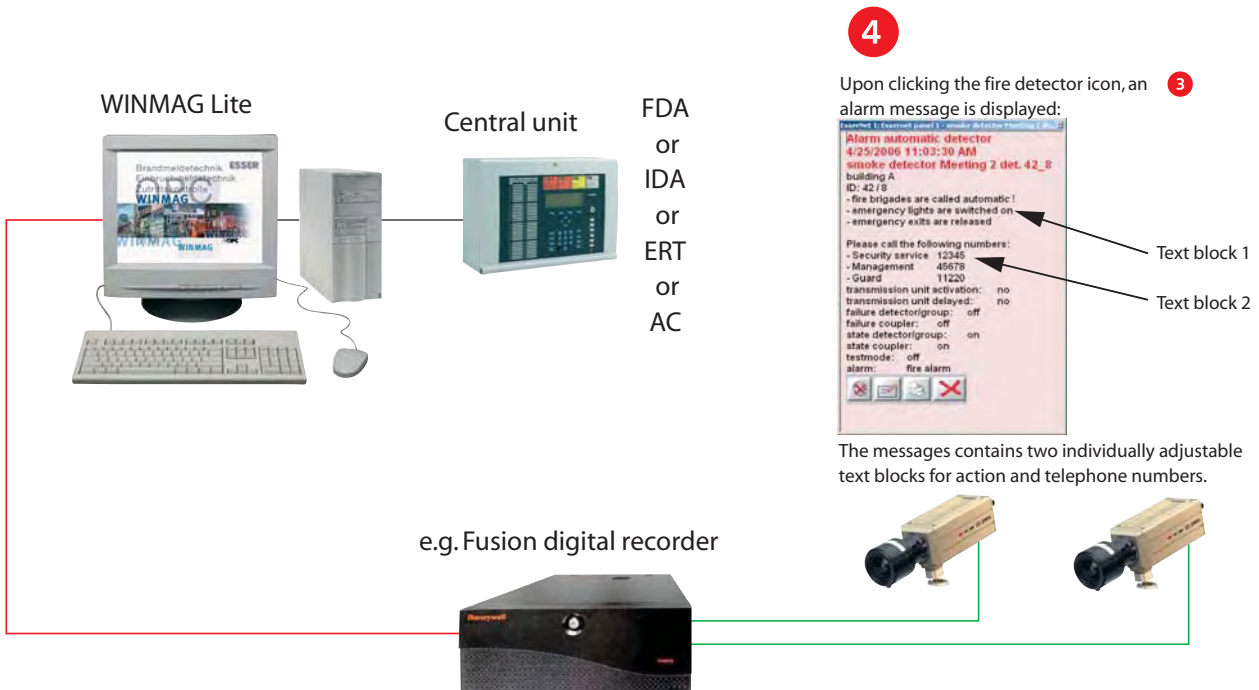
FDA = Fire Detection Alarm; IDA = Intrusion Detection Alarm; ERT = Escape Route Terminal; AC = Access Control

Notes
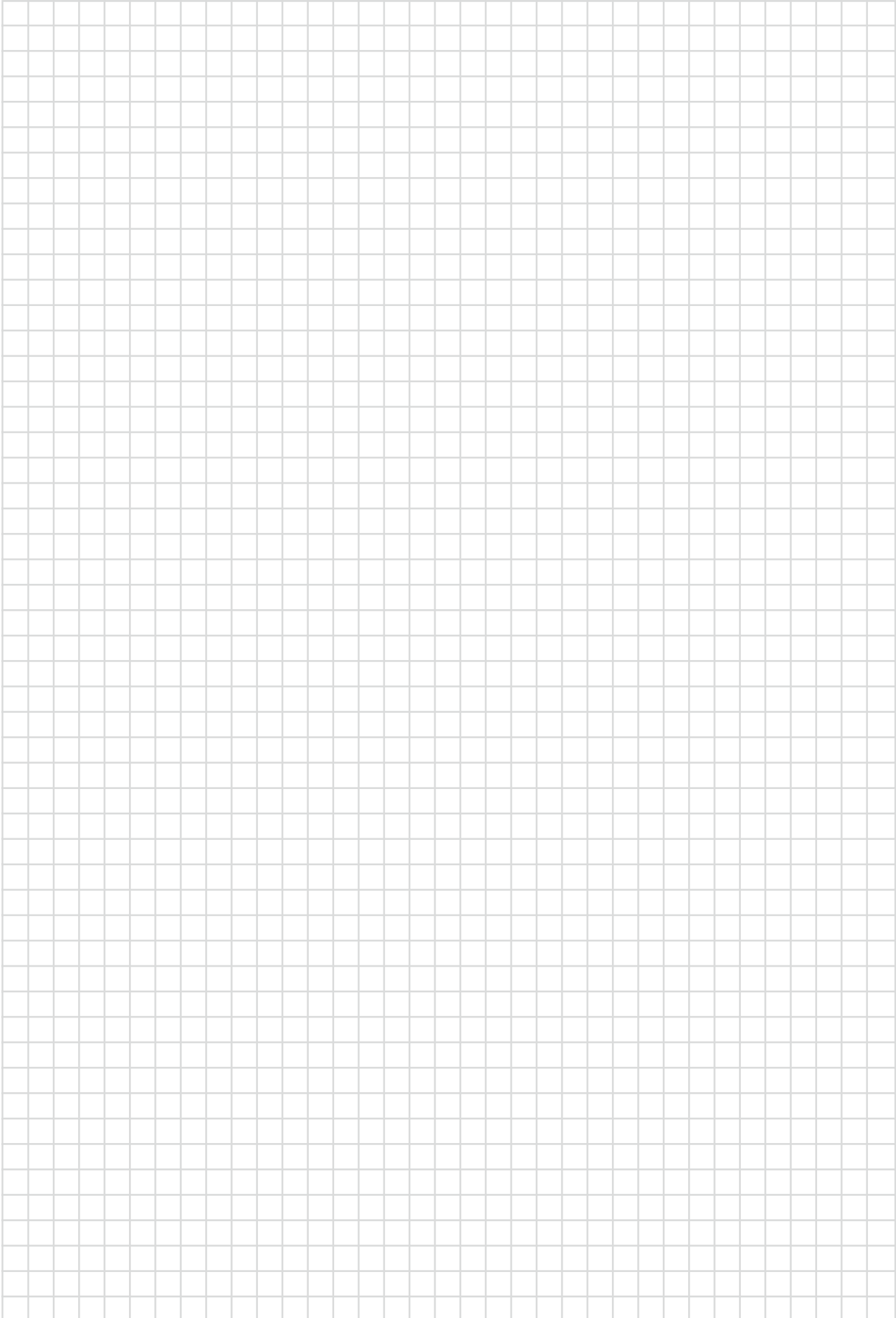
Operating elements
proX proximity readers
SmartCard readers
Chip card readers
Magnetic card readers
Keypads
Accessories

▶ List of readers

Reader-overview								
Housing design	Colour	Model	proX1	proX2	Mifare	Legic	Magnetic	Chip
classic, small proX1 = 12 cm Mifare/Legic = 5cm	grey white		026480	----	026494	026492	----	----
			026480.10	----			----	----
classic without keypad proX1 = 12cm	grey white		026380.00	----	----	----	----	----
			026390.00	----	----	----	----	----
			026390.10	----	----	----	----	----
classic with keypad proX1 = 12cm Mifare/Legic = 5cm	grey white		026383.00	----	026493	026491	----	----
			26481	----			----	----
classic, large proX1 = 25cm	grey white		026366.00	----	----	----	----	----
			026466.10	----	----	----	----	----
classic, far range proX1 = 50 cm	grey		026497	----	----	----	----	----
classic, swipe	grey white		----	----	----	----	026053.00 discontinued product	----
classic, slot	grey white/ silver		----	----	----	----	026011.00 discontinued product	----
plug in	grey white		027575 discontinued product	----	027577 discontinued product	027579 discontinued product	027580 discontinued product	----
softline	grey white		----	----	----	----	027710 discontinued product	027740
softline with keypad	grey white		----	----	----	----	027711 discontinued product	027741
Siedle Vario	white		027540	2nd Quarter `06	upon request	upon request	026470.10 + 027545	----
	titanium		027541	2nd Quarter `06	upon request	upon request	026470.10 + 027546	----
	silver		027542	2nd Quarter `06	upon request	upon request	026470.10 + 027547	----
	graphite brown		027543	2nd Quarter `06	upon request	upon request	026470.10 + 027548	----
Accentic without keypad	Alum. white / white or anthracite as desired		----	026420	026422	with 026424 Feb. 2007	----	----
Accentic with keypad	Alum. white / white or anthracite as disired		----	026421	026423	with 026425 Feb. 2007	----	----
Oris	greywhite/ green		----	----	026484 discontinued product	026485 discontinued product	----	----
absorbtion reader module			026440	----	026441	026442	----	----

notice: many special versions are available upon request

red, cursive = discontinued product

Interfaces	connectable at:
Clock/Data	ACT, ACS-1, ACS-2plus onboard, ACS-8 onboard, ACS-8 door module
RS485	ACS- 8 Modulebus
Clock/Data and RS485	Clock/Data mode see Clock/Data, RS485 mode see RS485
Clock/Data and 2-wire (for keypad)	ACT, ACS-2plus onboard, ACS-8 onboard, ACS-8 door module
RS232	COM x * only for customer-specific applications upon request

proX proximity readers, "Classic" design

026480   ‖‖‖‖‖‖‖‖‖‖‖   **"Classic" proX1 proximity reader**

Clock/Data interface
Reads proX1 and IK2 proximity ID cards.
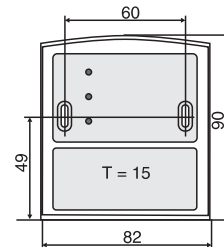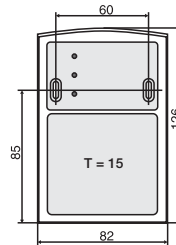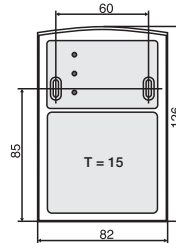
Technical Data	
Rated operating voltage	12 V DC
Operating voltage range	10 V DC to 15 V DC
Interface	Clock/Data
Current consumption	50 mA + 12 mA/LED
Protection type	IP 67
Transmission frequency	125 kHz
Operating temperature range	-25°C to +60°C
Environmental class according to VdS	III
Reading range	approx. 12 cm
Housing colour	grey-white
Membrane colour	light-grey

022196   Base included in the delivery

60

90

49

T = 15

82

Dimensional drawing

026480.10   ‖‖‖‖ ‖‖‖‖‖‖‖‖‖‖‖   **"Classic" proX1 proximity reader**

Clock/data and RS 485 interface
Reads proX1 and IK2 proximity ID cards.

Technical Data	
Rated operating voltage	12 V DC
Operating voltage range	10 V DC to 15 V DC
Interface	Clock/Data and RS 485
Current consumption	50 mA + 12 mA/LED
Protection type	IP 64
Transmission frequency	125 kHz
Operating temperature range	-25°C to +60°C
Environmental class according to VdS	III
Reading range	approx. 12 cm
Housing colour	grey-white
Membrane colour	light-grey

022196   Base included in the delivery

026383.00   ‖‖‖‖‖‖‖‖‖‖‖‖‖   **"Classic" proX1 proximity reader with keypad**

Clock/Data interface and 2-wire interface
Reads proX1 and IK2 proximity ID cards.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V DC to 15 V DC
Interface	Clock/Data
Current consumption	50 mA + 12 mA/LED
Protection type	IP 64
Transmission frequency	125 kHz
Operating temperature range	-25°C to +60°C
Environmental class according to VdS	III
Reading range	approx. 12 cm
Housing colour	grey-white
Membrane colour	light-grey

022197   Adapter base included in the delivery

Dimensional drawing

026481   ‖‖‖‖‖‖‖‖‖‖   **"Classic" proX1 proximity reader with keypad**

Clock/data and RS 485 interface
Reads proX1 and IK2 proximity ID cards.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V DC to 15 V DC
Interface	Clock/Data and RS 485
Current consumption	50 mA + 12 mA/LED
Protection type	IP 64
Transmission frequency	125 kHz
Operating temperature range	-25°C to +60°C
Environmental class according to VdS	III
Reading range	approx. 12 cm
Housing colour	grey-white
Membrane colour	light-grey

022197   Adapter base included in the delivery

026390.00 **"Classic" proX1 proximity reader**

Clock/Data interface
Reads proX1 and IK2 proximity ID cards.

Technical Data	
Rated operating voltage	12 V DC
Operating voltage range	10 V DC to 15 V DC
Interface	Clock/Data
Current consumption	50 mA + 12 mA/LED
Type of protection	IP 67
Transmission frequency	125 kHz
Operating temperature range	-25°C to +60°C
Environmental class according to VdS	III
Reading range	approx. 12 cm
Housing colour	grey-white
Membrane colour	light-grey

022197 Adapter base included in the delivery

Dimensional drawing

026390.10 **"Classic" proX1 proximity reader**

Clock/Data interface and RS 485 interface
Reads proX1 and IK2 proximity ID cards.

Technical Data	
Rated operating voltage	12 V DC
Operating voltage range	10 V DC to 15 V DC
Interface	Clock/Data and RS 485
Current consumption	50 mA + 12 mA/LED
Type of protection	IP 64
Transmission frequency	125 kHz
Operating temperature range	-25°C to +60°C
Environmental class according to VdS	III
Reading range	approx. 12 cm
Housing colour	grey-white
Membrane colour	light-grey

022197 Adapter base included in the delivery

026380.00   ‖‖‖‖‖ ‖ ‖‖‖‖‖‖‖‖‖‖‖   **"Classic" proX1 proximity reader**

RS 232 interface
Reads proX1 and IK2 proximity ID cards.

Technical Data	
Rated operating voltage	12 V DC
Operating voltage range	11 V DC to 15 V DC
Current consumption in no-load operation	50 mA
Current consumption per LED	15 mA
Current consumption max.	100 mA
Operating temperature range	-25°C to +60°C
Storage temperature range	-30°C to +60°C
Environmental class according to VdS	III
Type of protection	IP 64
Line length	max. 30 m
Reading distance	approx. 12 cm
Colour	grey-white

022197   Adapter base included in the delivery
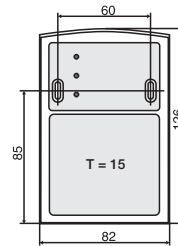
Dimensional drawing

026366.10   ‖‖‖‖ ‖ ‖‖‖‖‖‖‖‖‖‖‖   **"Classic" proX1 proximity reader**

Clock/Data interface and RS 485 interface
Reading range 25cm, not suitable for outdoor use
Reads proX1 and IK2 proximity ID cards.

Technical Data	
Rated operating voltage	12 V DC
Operating voltage range	11 V DC to 15 V DC
Interface	Clock/Data and RS 485
Current consumption	400 mA + 12 mA/LED
Type of protection	IP 40
Transmission frequency	125 kHz
Operating temperature range	-25°C to +60°C
Environmental class according to VdS	III (drip-proof)
Reading range	approx. 25 cm
Housing colour	grey-white
Membrane colour	light-grey

026497   ‖‖‖‖‖‖‖   **proX1 long-range contactless reader for outdoor use**

RS 485 interface
Reading range 30-50 cm, suitable for outdoor use (IP 65)
Reads proX1 and IK2 proximity ID cards.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V to 14 V DC
Current consumption	typ. 300 mA at 12 V DC
Transmission frequency	125 kHz
Reading range	up to approx. 50 cm
Interface	RS 485
Allowed cable length RS 485	max. 1200 m
Allowed antenna cable length	max. 10 m
Type of protection	IP 65 (reader and antenna)
Operating temperature range	-20 °C to +50 °C
Rel. humidity 5% to 95%, no condensation	
Reader housing	Aluminium
Dimensions (W x H x D)	Reader housing 250 x 160 x 100 mm
Dimensions	Antenna 600 x 400 x 23 mm
Colour	Reader housing grey

Proximity readers, Accentic design

NEW

026420   ‖‖‖‖‖‖‖‖‖   **"Accentic" proX2 reader without keypad**

VdS   **Approval**   **G 104029 (ID), Class C**

FC   **Approval**   **ID: UA2X0400601, IC: 6587AC0400601**

Clock/Data interface and RS 485 interface
proX2 reader in elegant ergonomic housing design
Reads proX1, IK2 and IK3 proximity cards (series number only).

Performance Features

- Reads proX1, IK2 and IK3 cards
- Range adjustment
- Replaceable housing front covers
- Insensitive to soiling
- Largely vandalism-proof
- Can be mounted directly on standard flush-mounted boxes
- Automatic addressing on RS 485 bus
- low current consumption

Technical Data	
Rated operating voltage	12 V DC
Rated operating voltage range	9 V to 15 V
Operating temperature range	-5°C to +55°C
Environmental class according to VdS	III
Type of protection DIN 40050	IP 65
Reading technology	proX2 (reads EM4102 and EM4150 transponders)
Housing	Plastic
Cable length	6 m (incl. terminal)
Dimensions (W x H x D)	75 x 144 x 32 mm
Colour	aluminium-white, similar to RAL 9006

Accessories

023501	Plastic shield (view/weather)
023329	Mounting plate, 3 per packing unit
023317	Front cover without keypad, pure white
023318	Front cover without keypad, anthracite
023319	Front cover without keypad, aluminium-white

NEW

026421   ‖‖‖‖‖‖‖‖‖   **"Accentic" proX2 reader with keypad**

VdS   **Approval**   **Z 105007 (AC), Class C**

FC   **Approval**   **ID: UA2X0400600, IC: 6587AX0400600**

Clock/Data interface and RS 485 interface
proX2 reader in elegant ergonomic housing design
Reads proX1, IK2 and IK3 proximity cards (series number only).

Performance Features

- Reads proX1, IK2 and IK3 cards
- Range adjustment
- Replaceable housing front covers
- Ergonomic keypad design
- Labelling with symbols (language neutral)
- Time-limited background lighting of the keypad
- Insensitive to soiling
- Largely vandalism-proof
- Can be mounted directly on standard flush-mounted boxes
- Automatic addressing on RS 485 bus
- low current consumption

Technical Data	
Rated operating voltage	12 V DC
Rated operating voltage range	9 V to 15 V
Operating temperature range	-5°C to +55°C
Environmental class according to VdS	III
Type of protection DIN 40050	IP 65
Reading technology	proX2 (reads EM4102 and EM4150 transponders)
Housing	Plastic
Cable length	6 m (incl. terminal)
Dimensions (W x H x D)	75 x 144 x 32 mm
Colour	aluminium-white, similar to RAL 9006

Accessories

023501	Plastic shield (view/weather)
023329	Mounting plate, 3 per packing unit
023315	Front cover with keypad, pure white
023316	Front cover with keypad, anthracite
023314	Front cover without keypad, aluminium-white

► **Siedle Vario proximity readers**

027540 ‖‖‖‖‖‖‖‖‖ **"Siedle" proximity reader, white**
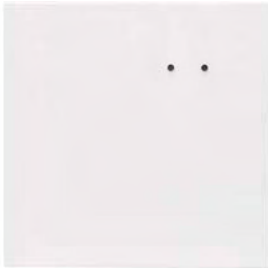
Clock/Data interface
Reads proX1 and IK2 proximity ID cards.

Dichtung 2 mm Stärke

99,0

Dimensional drawing

99,0   10,0 14,0
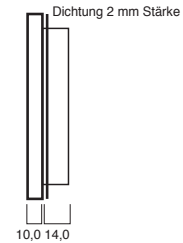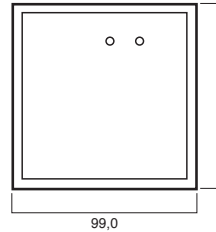
027541 ‖‖‖‖‖‖‖‖‖ **"Siedle" proximity reader, titanium**

Clock/Data interface
Reads proX1 and IK2 proximity ID cards.

Dichtung 2 mm Stärke

99,0

Dimensional drawing

99,0   10,0 14,0
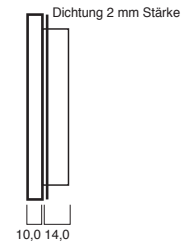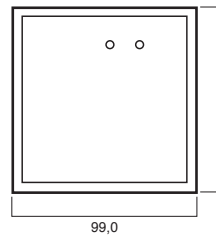
027542 ‖‖‖‖‖‖‖‖‖ **"Siedle" proximity reader, silver**

Clock/Data interface
Reads proX1 and IK2 proximity ID cards.

Dichtung 2 mm Stärke

99,0

Dimensional drawing

99,0   10,0 14,0
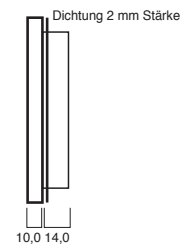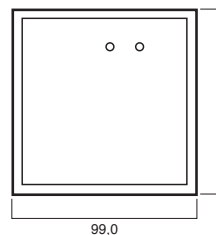
027543 ‖‖‖‖‖‖‖‖‖ **"Siedle" proximity reader, graphite-brown**

Clock/Data interface
Reads proX1 and IK2 proximity ID cards.

99,0

Abmessungen (in mm):

Dimensional drawing

99,0

Honeywell 67
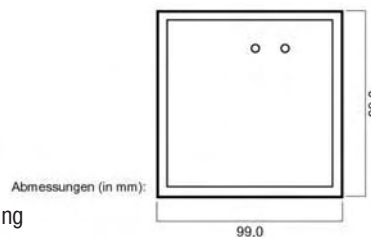
Proximity readers, motorized reader module

026440 ||||||||||||||||| **proX1 slot reader "module with motor"**

RS 485 interface
Card capture reader for proximity ID cards
Module without housing for mounting

HID reader, OmniProx

029720 ||||||||||||||||| **OmniProx 10 micro reader**

- HID-compatible proximity reader, 125 kHz
- Wiegand interface
- Compatible cards: HID 26bit and 34bit
- Reading distance up to 7 cm
- 3-colour LED
- Piezo alarm device
- 3 replaceable housing covers included in the delivery
  (black, dark-grey, ivory)
- Connectable via converter board

Technical Data

Supply voltage	5 - 16 V DC
Current consumption	at 5VDC - closed-circuit current 35 mA, active 50 mA
Ambient temperature range	-30 to +63 °C
Rel. humidity	0 - 90% no condensation
Dimensions (W x H x D)	80 x 40 x 13 mm

029721 ||||||||||||||||| **OmniProx 30 mini reader**

HID-compatible proximity reader, 125 kHz
- Wiegand interface
- Compatible cards: HID 26bit and 34bit
- Reading distance up to 9cm
- 3-colour LED
- Piezo alarm device
- 3 replaceable housing covers included in the delivery
  (black, dark-grey, ivory)
- Connectable via converter board

Technical Data

Supply voltage	5 - 16 V DC
Current consumption	at 5VDC - closed-circuit current 35 mA, active 100 mA
Ambient temperature range	-30 to +63 °C
Rel. humidity	0 - 90% no condensation
Dimensions (W x H x D)	145 x 43 x 20 mm

NEW

029722   ▐▊▐▌▐▌▊▌▐▌   **OmniProx 45 - installation box reader surface-mounted**

HID-compatible proximity reader, 125 kHz
- Wiegand interface
- Compatible cards: HID 26bit and 34bit
- Reading distance up to 10cm
- 3-colour LED
- Piezo alarm device
- For mounting on 55 mm flush-mounted boxes
- 3 replaceable housing covers included in the delivery
  (black, dark-grey, ivory)
- Connectable via converter board

Technical Data

Supply voltage	5 - 16 V DC
Current consumption	at 5VDC - closed-circuit current 35 mA, active 100 mA
Ambient temperature range	-30 to +63 °C
Rel. humidity	0 - 90% no condensation
Dimensions (W x H x D)	89 x 89 x 15 mm

NEW

029723   ▐▊▐▌▐▌▊▌▐▌   **OmniProx 90 - vandalism-proof reader, metallic housing**

HID-compatible proximity reader, 125 kHz
- Wiegand interface
- Compatible cards: HID 26bit and 34bit
- Reading distance up to 5cm
- 3-colour LED
- Piezo alarm device
- Silver-coloured metallic housing, vandalism-proof
- Connectable via converter board

Technical Data

Supply voltage	5 - 16 V DC
Current consumption	at 5VDC - closed-circuit current 35 mA, active 100 mA
Ambient temperature range	-30 to +63 °C
Rel. humidity	0 - 90% no condensation
Dimensions (W x H x D)	114 x 80 x 15 mm

Legic reader

026492   **"Classic" Legic reader without keypad**

RS 485 and Clock/Data interfaces, reading distance 3-5 cm, IP 64.

022196   Adapter base included in the delivery
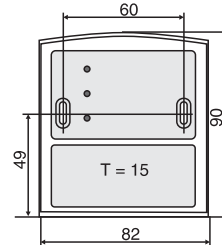
Dimensional drawing

026491   **"Classic" Legic reader with keypad**

RS 485 interface, reading distance 3-5 cm.

022197   Adapter base included in the delivery
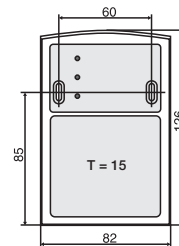
Dimensional drawing

Legic reader, motorized reader module

NEW

026442   ‖‖‖‖‖‖‖‖‖   **Legic slot reader "module with motor"**

RS 485 interface.
Module without housing for mounting.

mifare reader, Classic design

026494   ‖‖‖‖‖‖‖‖‖   **"Classic" mifare reader without keypad**

RS 485 and Clock/Data interfaces, reading distance 3-5 cm, IP 64.

🛒 022196   Adapter base

Dimensional drawing

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        60
   ┌─────────┐
   │ •       │
49 │ •     90│
   │ •       │
   │ T = 15  │
   └─────────┘
        82
```
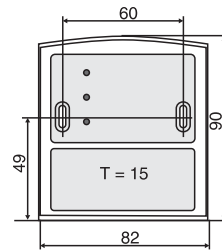
026493   ‖‖‖‖‖‖‖‖‖   **"Classic" mifare reader with keypad**

RS 485 interface, reading distance 3-5 cm.

🛒 022197   Adapter base

Dimensional drawing

```
        60
   ┌─────────┐
   │ •       │
85 │ •    126│
   │ •       │
   │ T = 15  │
   └─────────┘
        82
```
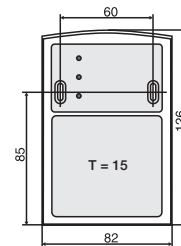
mifare reader, Accentic design

NEW | **026422** | ‖‖‖‖ ‖‖‖‖‖ | **"Accentic" mifare reader without keypad**

RS 485 interface and Clock/Data interface

Technical Data

Rated operating voltage	12 V DC to 24 V DC
Rated operating voltage range	8 V to 30 V
Operating temperature range	-25°C to +55°C
Environmental class according to VdS	III
Type of protection DIN 40050	IP 65
Reading technology	mifare according to ISO 14443 A
Housing	Plastic
Cable length	6 m (incl. terminal)
Dimensions (W x H x D)	75 x 144 x 32 mm
Colour	aluminium-white, similar to RAL 9006

Performance Features

- Replaceable housing face plates
- Insensitive to soiling
- Largely vandalism-proof
- Mounting directly on flush-mounted box, adapter plate available for different switch boxes
- Automatic addressing on RS 485 bus
- low current consumption
- mifare sector reading with/without password protection
- Read/write function

NEW | **026422.87** | ‖‖‖ ‖‖‖‖‖‖‖‖ | **"Accentic" mifare reader without keypad**

FC Approval   **ID: UA2X0402101, IC: 6587AX0402101**

As Item. no.026422 but with RS 485 and Wiegand-Interface (26 or 34 bit).

NEW

026423 ‖‖‖‖ ‖‖‖‖‖ ‖‖ **"Accentic" mifare reader with keypad**

RS 485 interface and Clock/Data interface

Technical Data

Rated operating voltage	12 V DC to 24 V DC
Rated operating voltage range	8 V to 30 V
Operating temperature range	-25°C to +55°C
Environmental class according to VdS	III
Type of protection DIN 40050	IP 65
Reading technology	mifare according to ISO 14443 A
Housing	Plastic
Cable length	6 m (incl. terminal)
Dimensions (W x H x D)	75 x 144 x 32 mm
Colour	aluminium-white, similar to RAL 9006

Performance Features

• Replaceable housing face plates
• Insensitive to soiling
• Largely vandalism-proof
• Mounting directly on flush-mounted box, adapter plate available for different switch boxes
• Automatic addressing on RS 485 bus
• low current consumption
• Ergonomic keypad design
• mifare sector reading with/without password protection
• read/write function
• Labelling with symbols (language neutral)
• Time-limited background lighting of the keypad

NEW

026423.87 ‖‖‖‖ ‖‖‖‖‖‖‖‖‖ ‖‖ **"Accentic" mifare reader with keypad**

FC **Approval**   **ID: UA2X0402100, IC: 6587AX0402100**

As Item. no.026423 but with RS-485 and Wiegand-Interface (26 or 34 bits).

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Keypads

026064   **Keypad unit, surface-mounted plastic housing, "Classic"**

For 2-wire technology with membrane keypad and three integrated LEDs, spray water protected

022197   Adapter base included in the delivery
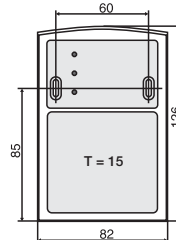
Dimensional drawing

026070.02   **Keypad unit surface-mounted metallic housing**

For 2-wire technology.
This keypad is suitable for indoor use.

Technical Data	
Switching current	25 mA
Interface	2-wire
Operating temperature range	-25°C to +60°C
Type of protection	IP 54
Environmental class according to VdS	III
Housing colour	grey-white, similar to RAL 9002
Front colour	light-grey, similar to RAL 7035
Weight	approx. 700 g
Dimensions (H x W x D)	164 x 73 x 36 mm

Accessories
026169   Flush-mounted installation set for keypad units in the surface mounted housing

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026071.02   **Keypad unit surface-mounted metallic housing, water-protected**

For 2-wire technology.
This keypad, due to the rubber seals, is suitable for outdoor use.

Technical Data	
Switching current	200 mA
Interface	2-wire
Operating temperature range	-25°C to +60°C
Type of protection	IP 65
Environmental class according to VdS	III
Housing colour	grey-white, similar to RAL 9002
Weight	approx. 700 g
Dimensions (H x W x D)	164 x 73 x 36 mm

Accessories
026169   Flush-mounted installation set for keypad units in the surface mounted housing

▶ **Code keypad unit**

Code keypad units are used in door code systems or in hazard detection systems with coded disarming device.
There are two different versions of connection technology.
1. Direct 1:1 connection, For each key of the unit, a special connection is available. In addition, a connection is available for the common reference potential. (12 keys = 13 connections)
2. Matrix 3/4 connection. The keys of the unit are arranged as a matrix. This means that not every key has its own connection. (12 keys = 7 connections)

ℹ The keypad units are not mutually exchangeable.

025105 ||||||||||||||| **Keypad unit, lockable (matrix)**

VdS **Approval** **G193010 (ID), Class C**

Surface-mounted version including three LEDs and a buzzer.

Technical Data

Type of protection	IP 32
Dimensions (W x H x D)	73 x 164 x 36 mm
Colour	grey-white, similar to RAL 9002

025170 ||||||||||||||| **Keypad unit for indoor mounting (matrix)**

Surface-mounted design without LEDs.

Technical Data

Dimensions (W x H x D)	73 x 164 x 36 mm
Colour	grey-white, similar to RAL 9002

025171 ||||||||||||||| **Keypad unit for indoor mounting (matrix)**

Surface-mounted design with three LEDs.

Technical Data

Dimensions (W x H x D)	73 x 164 x 36 mm
Colour	grey-white, similar to RAL 9002

025172   ‖‖‖‖‖‖‖‖‖‖‖   **Keypad unit, spray water protected (matrix)**

Surface-mounted version

Technical Data	
Type of protection	IP 54
Dimensions (W x H x D)	73 x 164 x 36 mm
Colour	grey-white, similar to RAL 9002

025169   ‖‖‖‖‖‖‖‖‖‖‖   **Flush-mounting assembly kit**

For code keypad units of all types

Technical Data	
Colour	grey-white, similar to RAL 9002
Dimensions (W x H x D)	92 x 180 x 35 mm (flush-mounted insert)
Dimensions (W x H x D) #2	104 x 194 x 23 mm (frame)

Accessories

NEW

023315   ‖‖‖‖‖‖‖‖‖   **Face plate IK3 and "Accentic" readers with keypad, pure white**

Replaceable face plate for IK3 or "Accentic" readers

Technical Data	
Colour	pure white, similar to RAL 9010

3 units

NEW

023316   ‖‖‖‖‖‖‖‖‖   **Face plate for IK3 and "Accentic" readers with keypad, anthracite**

Replaceable face plate for IK3 or "Accentic" readers

Technical Data	
Colour	anthracite (atlas grey metallic)

3 units

NEW

023317   ‖‖‖‖‖‖‖‖‖   **Face plate for IK3 and "Accentic" readers, pure white**

Replaceable face plate for IK3 or "Accentic" readers

Technical Data	
Colour	pure white, similar to RAL 9010

3 units

NEW

023318   ‖‖‖‖‖‖‖‖‖   **Face plate for IK3 and "Accentic" readers, anthracite**

Replaceable face plate for IK3 or "Accentic" readers

Technical Data	
Colour	anthracite

3 units

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Honeywell   77

022197 |||||||||||||| **Adapter base for "Classic" readers and keypads**

For running surface-mounted cables and mounting the reader on a metallic surface. Allows horizontal or vertical surface-mounted cable feed.

ℹ️ Fits AC articles:
026383.00 / 026390.00 / 026380.00 / 026384.00 / 026389.00 / 026064 / 026481 / 026390.10 / 026491 / 026492 / 026493 / 026494

Fits ID articles:
022195

023500 |||||||||||||| **Plastic shield (view/weather) for "Classic" readers and keypads**

Technical Data

Dimensions (W x H x D)	89 x 130.2 x 47 mm

ℹ️ If an already mounted operating element is to be retrofitted with the plastic shield (view/weather), the operating element must be unscrewed from the wall for mounting. To this end, the decorative film must be removed and replaced with a new one after mounting. The film is available as spare part.

Request-to-Exit

NEW

029730 | | | | | **"IS-310WH" AC motion detectors**

Performance Features

- Adjustable relay time (0.5 - 64 sec)
- Electronic signal evaluation and processing
- Bidirectional adjustment possible for additional security
- Adjustable sealing caps allow precise detection of the target area
- Mounting on wall or ceiling
- Colour white

The Request-to Exit (RTE) detectors are available as standard version and plus version and are suitable for any application in the area of access control.
The quick-to-install detectors are extremely flexible, offer plenty of cable routing space and contain built-in internal sealing caps, allowing precise target area detection.

Functionalities:
- Monitors an access control point for persons who want to leave the secured area.
- Monitors movements in an adjustable detection area.
- Generates a request-to-exit message, which is sent to the access control system / door locking system.
- Enables the automatic operation of a swing door.
- Already mandatory in many countries.

Technical Data

Input voltage	12-24 Volt AC or DC
Closed-circuit current	35 mA
Operating temperature	-10 C° to + 50 C°
Temperature compensation	progressive dual-slope method
Signal evaluation and processing	RTE and protection mode
Detectable signalling rate	0.1 - 0.35 m/sec.
Alarm relay	two form C outputs
Display	Green (ready) LED
Range	from 165cm x 60cm to 250cm x 480cm, as a function of the mounting height
Mounting height	210cm to 460cm
Dimensions (W x H x D)	17.8 cm x 5 cm x 5 cm

NEW

029731 | | | | | **"IS-320WH" AC motion detector plus**

For the description, see article 029730.

Performance Features

Performance features same as article 029730

Additional functions of the IS-320 WH/BL:
- Acoustic signalling
- Door contact input
- Input for reader/keypad/key-operated switch
- Remote arming and acoustic inputs
- Door monitoring and fail-safe protection mode

NEW

029732 | | | | | **"IS-310BL" AC motion detector**

See article 029730, but colour black

NEW

029733 | | | | | **"IS-320BL" AC motion detector plus**

See article 029731, but colour black

Honeywell

Notes

ID Carriers
> Cards, key fobs
> Reading stations
> Accessories

Service

026012.00	Low quantity surcharge (less than 10 units) when ordering cards (except magnetic cards or key fob 022190)
026015.00	Low quantity surcharge (less than 10 units) when ordering magnetic cards or key fob 022190)
026008.10	Coding of magnetic or chip cards (between 10 and 99 units)
026008.00	Coding of magnetic or chip cards (100 units and more)
026367.04	Coding a Legic card (from 10 units)
026364.04	Coding a mifare card (from 10 units)
026008.01	Sealing and coding magnetic card inlets
027865	Printing continuous numbers from 1 to 100
027865.01	Printing continuous numbers from 101

The cards are suitable for access control and time recording systems.
ID = Identification

For reasons of security, we ask you always to enclose the original security certificate when reordering cards. This prevents unauthorised ordering of cards or key fob 022190.
Please note that we add a low quantity surcharge when ordering fewer than 10 units.

Proximity proX1 ID cards

026368.00 **Blank ID card**

For proX1, proX2 and IK2 proximity readers.
The ID card is a data and information carrier in the cheque card format. The electronics is encapsulated inside the card and thus completely protected from moisture and largely from mechanical stress.

Technical Data

Operating temperature range	-35 °C to +50 °C
Bending and torsional properties	according to ISO 7816-1
Dimensions (W x H x D)	85.60 x 53.98 x 0.76 mm (according to DIN ISO)

Accessories
027850   Protective cover

026370.00 **Printed ID card**

For proX1, proX2 and IK2 proximity readers.
With Honeywell logo.

Technical Data

Operating temperature range	-35 °C to +50 °C
Bending and torsional properties	according to ISO 7816-1
Dimensions (W x H x D)	85.60 x 53.98 x 0.76 mm (according to DIN ISO)

Accessories
027850   Protective cover

026372.00 **Blank ID card with uncoded magnetic stripe**

For proX1, proX2 and IK2 proximity readers.
With magnetic stripe (uncoded).

Technical Data

Operating temperature range	-35 °C to +50 °C
Bending and torsional properties	according to ISO 7816-1
Dimensions (W x H x D)	85.60 x 53.98 x 0.76 mm (according to DIN ISO)

Accessories
027850   Protective cover

026371.00   ‖‖‖‖‖ ‖ ‖‖‖‖‖‖‖‖‖‖‖   **Printed ID card with uncoded magnetic stripe**

For proX1, proX2 and IK2 proximity readers.
With magnetic stripe (uncoded), with Honeywell logo.

Technical Data

Operating temperature range	-35 °C to +50 °C
Bending and torsional properties	according to ISO 7816-1
Dimensions (W x H x D)	85.60 x 53.98 x 0.76 mm (according to DIN ISO)

Accessories
027850   Protective cover

022190   ‖‖‖‖‖‖‖   **proX1 key fob**

For proX1 and proX2 proximity readers.
Simple design for ACreaders only **without** sticker.
Minimum order quantitiy 10 pcs.

023100   ‖‖‖‖‖‖‖‖‖ ‖‖‖   **ID key fob**

For proX1, proX2 and IK2 proximity readers.
Contactless ID information carrier. For use with IK2, AC and AR. The individual coding of the chip makes each ring unique. This principle makes manipulations virtually impossible.
This key ring makes it easy to use systems for contactless readers such as IK2 electro-mechanical locks and the corresponding readers of access control and time recording systems. You just place the key against the reading station for contactless readers.

ℹ️ Please note that the reading distance of ID key rings is somewhat lower than that of ID cards.

022185   ‖‖‖‖‖‖‖‖‖‖‖   **ID key cap**

For proX1, proX2 and IK2 proximity readers.
The keys belonging to the system are fitted with a key cap. The module integrated in the cap has already been provided by the factory with an electronic coding. For use with IK2, AC and AR.
The coded key cap is read wirelessly by the operating unit via the medium air.
The key cap is suitable for round 22.5 mm to 25 mm key heads and for rectangular key heads.

Technical Data

Operating temperature range	-20 °C to +50 °C
Storage temperature range	-25 °C to +70 °C
Type of protection DIN 40050	IP 67
Environmental class according to VdS	II
Dimensions (W x H x D)	35 x 39 x 8 mm
Colour	black, similar to RAL 9005

ℹ️ Please note that the reading distance of ID key rings is somewhat lower than that of ID cards.

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022172 |||||||| || |||||| **Gluing set**

Two-component adhesive for bonding the key caps.

Legic and mifare data carriers

ℹ️ The prices given below for Legic and mifare cards are unit prices for one card, when purchasing 10 or more cards per type.

026367 |||||||| | ||||||| **Blank Legic card (from 10 units)**
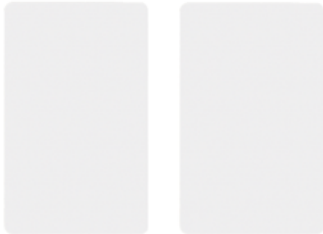
For Legic readers
Legic card on both sides blank, white, high-gloss.
Badge code with removable adhesive label "Badge code and article number".

026367.01 ||||||| | ||||||||||||| **Blank Legic card with magnetic stripe (from 10 units)**

For Legic and magnetic card readers.
Legic card with magnetic stripe HICO (uncoded) on both sides blank, white, high-gloss.
Badge code with removable adhesive label "Badge code and article number".

026367.02 |||||| | ||||||||||||| **Blank Legic card (from 10 units)**
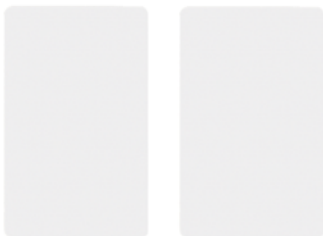
For Legic readers
Legic card on both sides blank, white, high-gloss.
Programmed with Honeywell data organisation, labelled with continuous badge number.

026367.03   **Blank Legic card with magnetic stripe (from 10 units)**

For Legic and magnetic card readers.
Legic card with magnetic stripe HICO (uncoded) on both sides blank, white, high-gloss.
Programmed with Honeywell data organisation, labelled with continuous badge number.

026367.05   **Legic key ring**

For Legic readers
Legic key ring black / grey
Badge code with removable adhesive label "Badge code and article number".

026364   **Blank mifare card (from 10 units)**
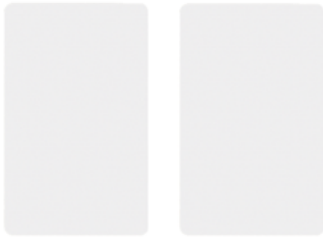
For mifare readers
mifare card on both sides blank, white / high-gloss.
Badge code with removable adhesive label "Badge code and article number".

026364.01   **Blank mifare card with magnetic stripe (from 10 units)**
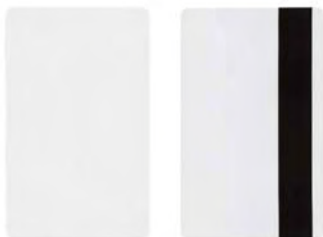
For mifare and magnetic card readers.
mifare card with magnetic stripe HICO (uncoded) on both sides blank, white, high-gloss.
Badge code with removable adhesive label "Badge code and article number".

026364.02   **Blank mifare card (from 10 units)**

For mifare readers
mifare card on both sides blank, white, high-gloss.
Programmed with Honeywell data organisation, labelled with continuous badge number.

026364.03   **Blank mifare card with magnetic stripe (from 10 units)**

For mifare and magnetic card readers.
mifare card with magnetic stripe HICO (uncoded) on both sides blank, white, high-gloss.
Programmed with Honeywell data organisation, labelled with continuous badge number.

026364.05   **mifare key ring**

For mifare readers
mifare key ring black / grey
Badge code with removable adhesive label "Badge code and article number".

Chip cards

027600   **ID card for chip card readers, printed**

With Honeywell logo.

027601   **ID card for chip card readers, printed**

With magnetic stripe HICO, Honeywell logo

027602   **ID card for chip card readers**

With magnetic stripe HICO, neutral

ID magnetic cards

026000.10   **ID magnetic card (coded), printed**

Magnetic card according to ISO standard 7810
Laminated polyvinyl chloride (PVC).
Ground white with print and three-line label box.

Technical Data	
Format	85.7 x 54 x 0.8 mm
Magnetic stripe	coded according to DIN 9785 (HICO)

026003.10   **ID magnetic card (uncoded), printed**

Magnetic card according to ISO standard 7810
Laminated polyvinyl chloride (PVC).
Ground white with print and three-line label box.

Technical Data	
Format	85.7 x 54 x 0.8 mm
Magnetic stripe	codable according to DIN 9785 (HICO), see coding service

HID data carrier

029725   **HID card, contactless 26bit, unprinted**

For OmniProx HID readers
PVC card in cheque card format
The HID ID card is a data and information carrier in the cheque card format.

Technical Data	
Dimensions (W x H x D)	85.60 x 53.98 x 0.76 mm according to DIN ISO
Card format	26-bit

029724   **HID card, contactless 34bit, unprinted**
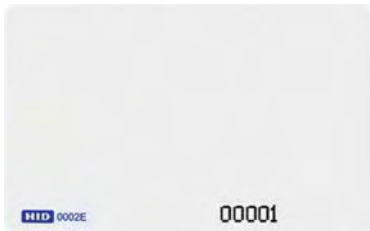
For OmniProx HID readers
PVC card in cheque card format
The HID ID card is a data and information carrier in the cheque card format.

Technical Data	
Dimensions (W x H x D)	85.60 x 53.98 x 0.76 mm according to DIN ISO
Card format	34-bit

029726   **HID MicroProx tag, contactless 26-bit, self-adhesive**

For OmniProx HID readers
The MicroProx tag is equipped with contactless HID technology, 125 kHz in the form of a round disc-like transponder. Owing to its adhesive layer on the back, it can be easily attached to non-metallic cards and electronic devices.

Technical Data	
Diameter	32.64mm
Thickness	0.178mm
Card format	26-bit

029727   **HID MicroProx tag, contactless 34-bit, self-adhesive**

For OmniProx HID readers
The MicroProx tag is equipped with contactless HID technology, 125 kHz in the form of a round disc-like transponder. Owing to its adhesive layer on the back, it can be easily attached to non-metallic cards and electronic devices.

Technical Data	
Diameter	32.64mm
Thickness	0.178mm
Card format	34-bit

► **Service and accessories for ID carriers**

026012.00   **Low quantity surcharge (under 10 units)**

When ordering cards, with the exception of magnetic cards.

026015.00   **Low quantity surcharge (under 10 units)**

When ordering magnetic cards.

► **Card coding**

026008.10   **Coding of ID magnetic or chip cards**

Between 10 and 99 units

026008.00   **Coding of ID magnetic or chip cards**

From 100 units

026008.01   **Sealing and coding magnetic card inlets**

026367.04   **Coding a Legic card**

With customer-specific data, from 10 units.

026364.04   **Coding a mifare card**

With customer-specific data, from 10 units.

Card print

027865	Printing continuous numbers 1 to 100 units

027865.01	Printing continuous numbers from 101 units

027870   Card print
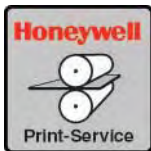
Initialisation costs black/white or coloured, once per order and card side.

027871   Card print
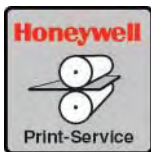
Per page black/white, 1 - 100 units

027872   Card print

Per page black/white, 101 -1000 units

027873   Card print

Per page black/white, from 1001 units

027874   Card print
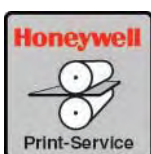
Per page coloured, 1 - 100 units

027875 Card print
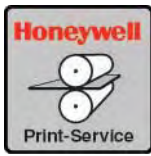
Per page coloured, 101 - 1000 units

027876 Card print

Per page coloured, from 1001 units

Accessories for cards

026009.00 ID card holder

Card holder made of black plastic with clip for horizontal or vertical mounting. Suitable for all ID cards according to ISO standard 7810.
Other colours upon request.

027850 Protective cover for EC, ID cards

5 units

Further badge accessories available upon request.

Read-in station

026490   **Read-in station for contactless proX1 ID cards**

Contactless card reading via MultiAccess for Windows, MultiAccess Lite, IQ MultiAccess and NovaTime. The reading station is connected to the PC (e.g. COM 1) via the built-in RS 232 interface.

Technical Data

Dimensions (W x H x D)	201 x 147 x 51 mm

026488   **Read-in station for non-read-protected Legic cards**

Contactless card reading via MultiAccess for Windows, MultiAccess Lite, IQ MultiAccess and NovaTime. The reading station is connected to the PC (e.g. COM 1) via the built-in RS 232 interface.

Technical Data

Dimensions (W x H x D)	160 x 84 x 56 mm

026489   **Read-in station for non-read-protected mifare cards**

Contactless card reading via MultiAccess for Windows, MultiAccess Lite, IQ MultiAccess and NovaTime. The reading station is connected to the PC (e.g. COM 1) via the built-in RS 232 interface.

Technical Data

Dimensions (W x H x D)	160 x 84 x 56 mm

Biometrics

Face Pass

FacePASS™ is an access control system with integrated camera verifying persons fully automatically on the basis of their face. The minimum equipment of the FacePASS™ system consists of a console containing the camera module and a contactless reading unit, and a computer, the so-called station box. FacePASS™ can be operated as single- or multi-door system and can be tailored to your requirements. FacePASS™ can be integrated without problems in the ACS-8 via the RS 485 interfaces. Owing to its simple configurability and high scalability, an existing system can be extended later on without any problem, for example from a single access control station to a network solution containing several control stations.

The Access Station - consisting of the Access Station software and the station box hardware - together with a console forms an access control station.
In the FacePASS™ system, the Access Station has the following tasks:
- Digitising the video data of the console,
- Reading in the card data via an external reader
- Verifying the digitised video data,
- Outputting the control signals for the console signal module via the FacePASS™ interface,
- Saving the verification log data (configurable),
- Notifying (message system) the engine of the verification (configurable)
  via the network,
- Automatic sequence of all functions,
- Output of the verification result via relay or RS 485.

The Enrollment Station - consisting of the Enrollment Station software and the StationBox hardware - together with a console forms the registration station for new persons and has the following tasks:
- Digitising the video data of the console,
- Reading in the card data via an external reader,
- Output of the control signals for the console signal module via the FacePASS™ interface,
- Saving and deleting pictures taken (configurable),
- Preparing the data transfer,
- Communication with the administrator of the Enrollment Station,
- Notifying (message system) the engine of the incorporation of persons,
- is optional for registering persons, for example in the personnel department.

The engine manages the FacePASS™ overall system and has the following administrative tasks:
- Displaying and processing the FacePASS™ log and database data,
- Automatic and/or manual processing of the log data,
- Remote control and configuration of all connected access stations,
- Central status monitoring of all connected access stations,
- Configuring the FacePASS™ system parameters,
- Displaying the notifications sent by the access stations to the engine.

- Switching between languages for displaying the user interfaces,
- Incorporation of new persons and new picture data in the FacePASS™ system,
- Includes enrollment software,
- It is always required and will be installed on a separate computer, either the Access Station or the optional Enrollment Station.

Application diagram for a large network system

ACS-8

Ethernet

RS 485,
via communication module item no. 026587

IQ MultiAccess

Access control server

Door 2 via door module

I/O module

door 1

I/O module

door 3

I/O module

I/O module

door 4

door 5

Console 1   **Console 2**   **Console 3**   **Console 4**   **Console 5**

RS 485
+ video

RS 485
+ video

RS 485
+ video

RS 485
+ video

access
station 1

access
station 2

access
station 3

dual access
station 4

ethernet

RS 485
+ video

enrollment station

FacePass
Engine

FacePass   **System management**

► FacePASS™ Engine

029414   **FacePASS™ professional engine system management of up to 50 persons**

The engine manages the FacePASS™ overall system and has the following administrative tasks:
- Displaying and processing the FacePASS™ log and database data,
- Automatic and/or manual processing of the log data,
- Remote control and configuration of all connected access stations,
- Central status monitoring of all connected access stations,
- Configuring the FacePASS™ system parameters,
- displaying the notifications sent by the access stations to the engine.
- Switching between languages for displaying the user interfaces,
- Incorporating new persons and new picture data in the FacePASS™ system,

ℹ️ The standard version of the FacePASS™ prof. engine (029414) must be additionally ordered for all database extensions.

029430   **FacePASS™ prof. engine database ext. f. another 50 users**

029431   **FacePASS™ prof. engine database ext. f. another 100 users**

029432   **FacePASS™ prof. engine database ext. f. another 250 users**

029433   **FacePASS™ prof. engine database ext. f. another 500 users**

029434   **FacePASS™ prof. engine database ext. f. another 1000 users**

029435   **FacePASS™ prof. engine database ext. f. another 2500 users**

029436   **FacePASS™ prof. engine database ext. f. another 5000 users**

029437   **FacePASS™ prof. engine database ext. f. another 10,000 users**

► FacePASS™ options

029440   **FacePASS™ prof. software features: Statistics**

Provides easy-to-understand graphic overviews of all access operations and access attempts.

029441   **FacePASS™ prof. software features: Exporting data**

Access and image data can be exported in different formats (.csv, .xls, .png) and evaluated later on.

029443   **FacePASS™ professional software features: Gate keeper module**

Additional interactive operation by gate keeper possible.

▶ **FacePASS™ stations**

029416 ||||||||||||||||||| **FacePASS™ professional access station for one door**

Controller in the network for verification for one door, must be connected to a console.
Connections:
RS 485: Connection reading unit; framegrabber: Connection CCD camera;
LAN: Network connection Ethernet (Fast); RS-485: Module bus ACS-8

Technical Data	
Mains voltage	230 V/50 Hz or 110 V/60 Hz
Dimensions (W x H x D)	232 x 176 x 421 mm
Weight	10 kg
Protection class	IP 20
Storage temperature	0 °C to +60 °C at 5 % to 95 % of humidity
Ambient temperature	+5 °C to +35 °C
Power consumption	max. 400 Watt

Professional access station box, professional access station licence, network interface, manual, card for integration in ACS-8.

Performance Features

- Authorised access for up to 65,500 persons (more upon request)
- System solution for securing several doors
- Ethernet connection between the individual station boxes possible
- Linkup to ACS-8 via RS 485

029418 |||||||||| **FacePASS™ professional access dual station for 1 to 2 doors**

Controllers in the network for verification for two doors, each of which must be connected to a console.
Connections:
2 x RS 485: Connection reading unit; framegrabber: Connection two CCD cameras;
LAN: Network connection Ethernet (Fast); RS-485: Module bus ACS-8

Technical Data	
Mains voltage	230 V/50 Hz or 110 V/60 Hz
Dimensions (W x H x D)	232 x 176 x 421 mm
Weight	10 kg
Protection class	IP 20
Storage temperature	0 °C to +60 °C at 5 % to 95 % of humidity
Ambient temperature	+5 °C to +35 °C
Power consumption	max. 400 Watt

Professional access dual station box, professional access dual station licence, network interface, manual, card for integration in ACS-8.

029415 ||||||||||||||||||| **FacePASS™ professional enrollment station**

Remote station in the network for recording biometric data. The recording additionally requires a console.
Connections:
RS 485: Connection reading unit; framegrabber: Connection CCD camera;
LAN: Network connection Ethernet (Fast); RS-485: Module bus ACS-8

Technical Data	
Mains voltage	230 V/50 Hz or 110 V/60 Hz
Dimensions (W x H x D)	232 x 176 x 421 mm
Weight	10 kg
Protection class	IP 20
Storage temperature	0 °C to +60 °C at 5 % to 95 % of humidity
Ambient temperature	+5 °C to +35 °C at 5 % to 95 % of humidity
Power consumption	max. 400 Watt

Professional enrollment station box, professional enrollment station licence, network interface, manual, card for connecting a reader.

Performance Features

- Authorised access for up to 65,500 persons (more upon request)
- System solution for securing several doors
- Ethernet connection between the individual station boxes possible

Accessories
Keypad, monitor, mouse

029401 ▌║▌║║▌║║▌▌ **FacePASS™ AluTec upright console for indoor use**

Aluminium upright console equipped with a camera and lighting for connecting a station box or an enrollment station. Consists of camera (head) and column.
The standard distance between console and station box is 5 m (can be extended to 15 m without reinforcement, for more than 15 m, see 029423 for video signal, further signals upon request).

Performance Features

- Console (head): Housing (aluminium, surface Nextel B34 painted), signal module, IR module, single-board CCD camera, filter module
- Column: aluminium, surface ground (grain size 240), anodised (natural)
- Proximity reader can be integrated

Technical Data	
Housing	Aluminium
Dimensions (W x H x D)	150 x 1195 x 200 mm
Weight	4.0 kg
Protection class	IP 50
Connection	Video signal, 3xTTL
Storage temperature	-20 °C to +55 °C
Ambient temperature	+5 °C to +35 °C

🚚 Console,
cable for connection to station box: AWG 24, 2+S; RG 179 or RG 59; AWG 24, 4+S. Delivered cable length: 5 m.

Accessories
026480.10   Proximity reader

029402 ▌║▌║║▌║║▌▌ **FacePASS™ AluTec wall console for indoor use**

Aluminium wall console equipped with a camera and lighting for connection to a station box or an enrollment station. Consists of a camera (head) and a column.
The standard distance between console and station box is 5 m (can be extended to 15 m without reinforcement, for more than 15 m, see 029423 for video signal, external power supply unit for 12 V).

Performance Features

- Console (head): Housing (aluminium, surface Nextel B34 painted), signal module, IR module, single-board CCD camera, filter module
- Housing: aluminium, surface ground (grain size 240), anodised (natural)
- Wall mount: aluminium, surface ground (grain size 240), anodised (natural)
- Proximity reader can be integrated.

Technical Data	
Housing	Aluminium
Dimensions (W x H x D)	104 x 281 x 161 mm (without wall mount)
Weight	2.5 kg / 3.5 kg with wall mount
Protection class	IP 50
Storage temperature	-20 °C to +55 °C
Ambient temperature	+5 °C to +35 °C
Connection	Video signal, 3xTTL

🚚 Console
cable for connection to station box: AWG 24, 2+S; RG 179 or RG 59; AWG 24, 4+S. Delivered cable length: 5 m.

Accessories
026480.10   Proximity reader

029404 |||||||||||||||| **FacePASS™ AluTec wall console for outdoor use**

AluTec wall console equipped with a camera and lighting for connection to a station box. Consists of a camera (head) and a column.

The standard distance between console and station box is 5 m (can be extended to 15 m without reinforcement, for more than 15 m, see 029423 for video signal, external power supply unit for 12 V).

Performance Features

- Console (head, figure does not show the card reader support): housing, signal module, IR module,
  single-board CCD camera, filter module
- Housing: aluminium, surface ground (grain size 240), anodised (natural)
- Wall mount: aluminium, surface ground (grain size 240), anodised (natural)
- Proximity reader (RS 485) can be integrated.
- Integrated heating

Technical Data	
Housing	Aluminium
Dimensions (W x H x D)	120 x 150 x 240 mm
Weight	2.2 kg
Protection class	IP 64
Connection	Video signal, 3xTTL
Storage temperature	-20 °C to +55 °C
Ambient temperature	-20 °C to +40 °C

Console,
cable for connection to station box: AWG 24, 2+S; RG 179 or RG 59; AWG 24, 4+S.
Delivered cable length: 5 m.

Accessories
026480.10   Proximity reader

029403 |||||||||||||||| **FacePASS™ AluTec upright console for outdoor use**

Availability upon request

▶ **FacePASS™ accessories**

029406 |||||||||||||||| **FacePASS™ manual, in printed form**

Installation manual, user manual

029423 |||||||||||||||| **Repeater for extending the video cable**

Repeater for extending the video cable between console and access station for extending the cable beyond 15 m.
BNC terminal: 1 x BNC plug (video input 1 Vss, 75 Ohm) 1 x terminal max. distance 750 m (Cat 5, B/W video signal); max. distance 450 m (Cat 3, B/W video signal)

Technical Data	
Range	450-750 m (depends on cable used)
Ambient temperature	0 °C to +50 °C
Storage temperature	-20 °C to +80 °C
Dimensions (W x H x D)	31 x 12 x 12 mm

2 x BNC terminal (no power supply unit necessary).

Honeywell **99**

Notes
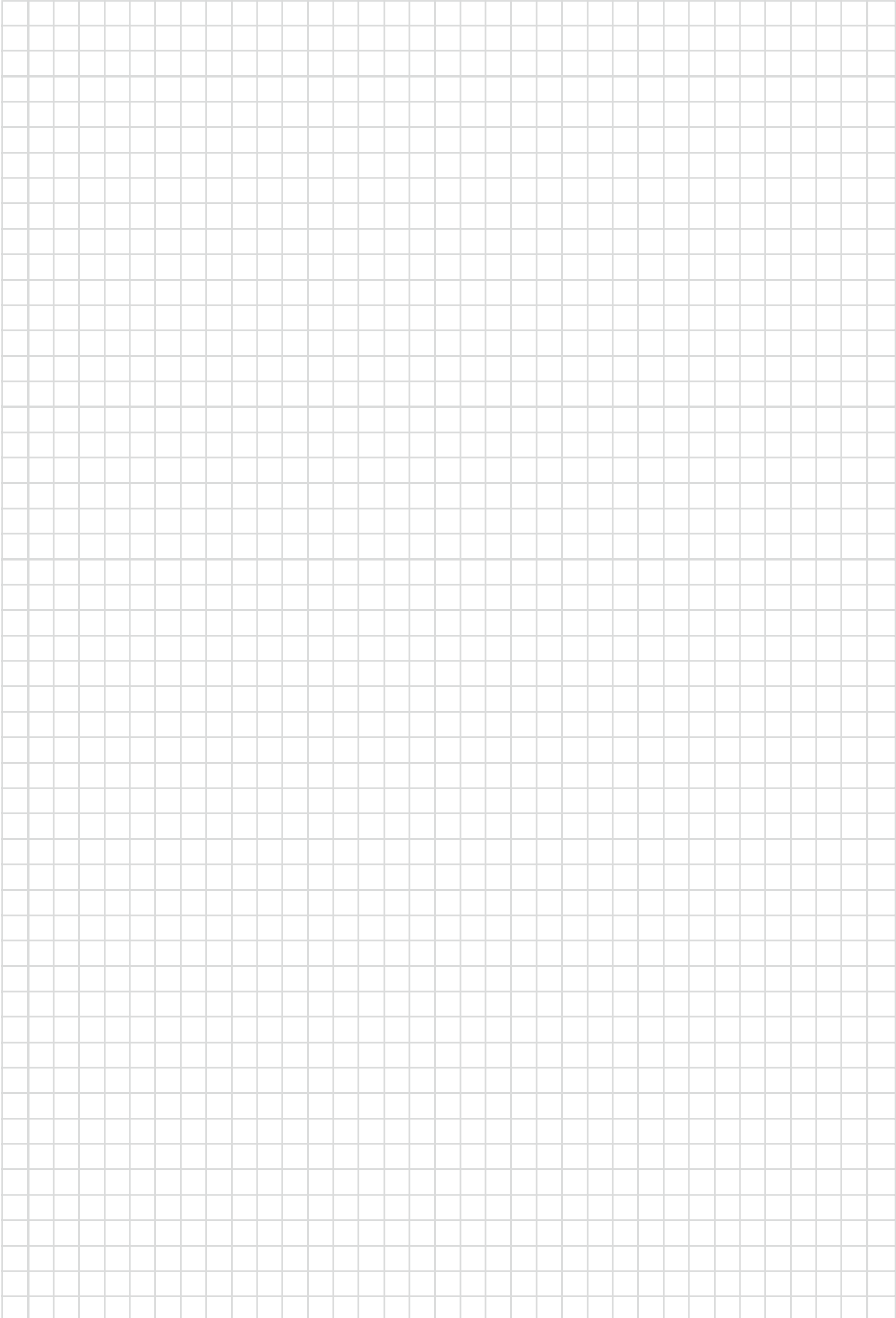
Door Strikes

Standard Door Strikes
Safety Door Strikes

The electro-mechanical door strike consists of two mechanical components:
The mobile, electro-mechanical catch bolt mounted in the door frame and its solid counter part mounted in the door leaf.
With the system switched on the door closed, the catch bolt is electro-mechanically locked and locks the door via the counter unit. The door cannot be opened. With the system switched off, the catch bolt is electro-mechanically unlocked, and the counter unit can slide in and out again with little noise. The door is released for opening.
The group of electro-mechanical door strikes includes: door strike in no-load operation; door strike with load current function.
The electro-mechanical door strike, in combination with a suitable operating unit, is advantageous in modern security technology, because no block lock has to be mounted. Especially the electro-mechanical locks for fully glazed systems and for all-glass doors offer new proposed solutions for secure locking, which previously have not yet been implemented.

Load current principle:
Locking takes place by the load current principle, which means that the catch bolt is unlocked when voltage is applied. In case of power failure, the door is locked.

No-load current principle:
Locking takes place by the no-load current principle, which means that the catch bolt is locked when voltage is applied. In case of power failure, the door is unlocked.

019040 ||||||||||||||||| **Universal electric door strike**

Door strike with load current function fitted with standard flat striking plate with dead bolt cutout for house and room door locks. Remountable for DIN left- and right-hand

Technical Data	
Nominal voltage	12 V DC
Current consumption	0.23 A
Duty cycle	100%

ℹ️ For dimensional drawing, see overview.

019041 ||||||||||||||||| **Universal electric door strike**

Door strike with no-load current function fitted with standard flat striking plate with dead bolt cutout for house and room door locks. Remountable for DIN left- and right-hand

Technical Data	
Nominal voltage	12 V DC
Current consumption	0.23 A
Duty cycle	100%

ℹ️ For dimensional drawing, see overview.

019044 ||||||||||||||||| **FAFIX electric door strike**

Door strike with load current function fitted with standard flat striking plate with dead bolt cutout for house and room door locks.
Symmetric FAFIX latch bolt arrangement Remountable for DIN left- and right-hand

Technical Data	
Nominal voltage	12 V DC
Current consumption	0.23 A
Duty cycle	100%

ℹ️ FAFIX = door strike with adjustable and fixable door strike latch bolt
For dimensional drawing, see overview.

019045   █║█║█║█║██║║║█ ║█ **FAFIX electric door strike**

Door strike with no-load current function fitted with standard flat striking plate with dead bolt cutout for house and room door locks.
Symmetric FAFIX latch bolt arrangement Remountable for DIN left- and right-hand

Technical Data

Nominal voltage	12 V DC
Current consumption	0.23 A
Duty cycle	100%

ℹ️ Variations such as angled striking plate (DIN left-/right-hand) or short flat striking plate upon request.

▶ **Electric door strike dimensional drawings**

DIN left-hand   DIN right-hand

Electric door strike
019040 / 019041

DIN left-hand   DIN right-hand
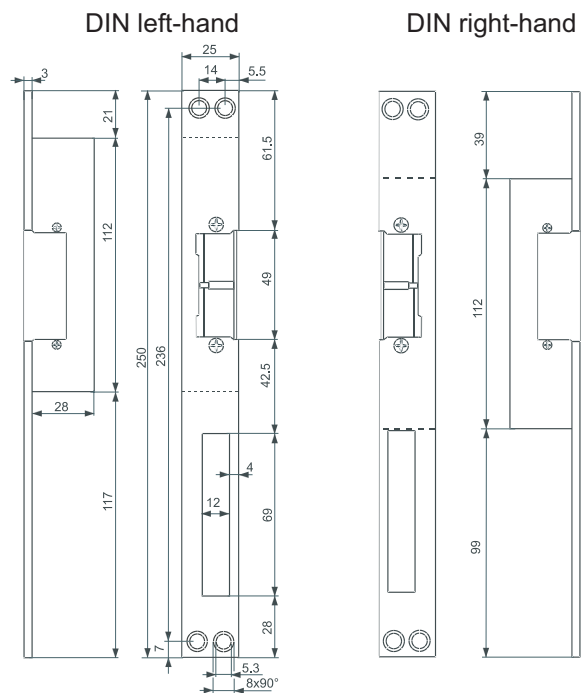
Electric door strike
019044 / 019045
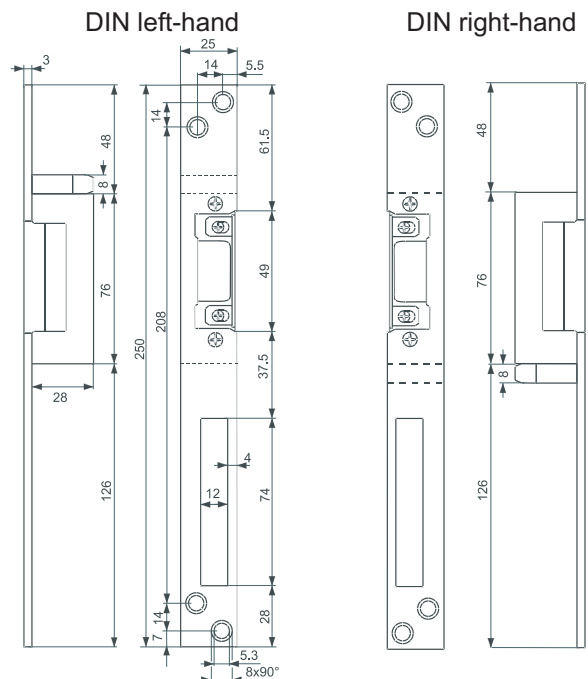
019042 |||||||||||||||| **DIN right-hand safety door strike**

| VdS | **Approval** | **Z199003 (AC), Class C** |

Door strike with load current function fitted with standard flat striking plate with dead bolt cutout for house and room door locks, with increased protection against break-open.

Technical Data	
Nominal voltage	12 V DC
Current consumption	0.35 A
Duty cycle	100%

019042.01 |||||||||||||||||| **DIN left-hand safety door strike**

| VdS | **Approval** | **Z199003 (AC), Class C** |

Door strike with load current function fitted with standard flat striking plate with dead bolt cutout for house and room door locks, with increased protection against break-open.

Technical Data	
Nominal voltage	12 V DC
Current consumption	0.35 A
Duty cycle	100%

019047 ||||||||||||| **Safety door strike with armature contact monitoring DIN left-hand**

| VdS | **Approval** | **Z199003 (AC), Class C** |

019048 ||||||||||||| **Safety door strike with armature contact monitoring DIN right-hand**

| VdS | **Approval** | **Z199003 (AC), Class C** |

019049 ||||||||||||| **Angled striking plate for safety door strike 019042 DIN right-hand**

019049.01 ||||||||||||||||||||||| **Angled striking plate for safety door strike 019042.01 DIN left-hand**

019046 ||||||||||||||| **Strike with load current function**

Fits surface mounted housing art. no. 019185.10, DIN left-hand FAFIX, without striking plate, approved for fire barrier doors.

▶ **Surface mounted housing**

019185.10 ||||||||||||||||||||||||| **Surface mounted housing model A 01 for steel and wooden doors**

For escape door strikes 019187, 019188 and strike with load current function 019046.

Technical Data	
Dimensions (W x H x D)	168 x 57 x 40 mm
Material	Stainless steel

ℹ️ For the technical details, see graphic "Detailed views of surface mounted housings A01, A04 and mounting bracket A03"

🚚 Without door strike

019190.10 ||||||||||||||||||||||||||| **Mounting plate set A04**

The combination of mounting plate A04 and surface mounted housing A01 replaces the previous surface mounted housing A02. The mounting plate A04 can also be used for fastening the mounting bracket A03.

Technical Data	
Material	Stainless steel

019189.10 ||||||||||||||||||||||||||| **Mounting bracket A03 for surface mounted housing A01**

The mounting bracket A03 can be used to compensate an offset between door leaf and door frame of at most +4 mm or at most -9 mm. An additional -2 mm can be compensated by means of the Fafix adjustment of the door strike latch bolt. This means that the door leaf can be moved back by up to 11 mm, relative to the door frame, or project from it by up to 4 mm.

Technical Data	
Material	Stainless steel

ℹ️ For flush-surface doors

Honeywell   **105**

Detailed views of surface mounted housing A01, A04 and mounting bracket A03

Surface mounted
housing A01 for steel
doors and wooden doors

frame profile

blind riveting nut M5

blind riveting nut M5

countersunk screw
M5 x 15

countersunk screw
M5 x 15

counter unit

protective cover

door

Door strike with mounting plate
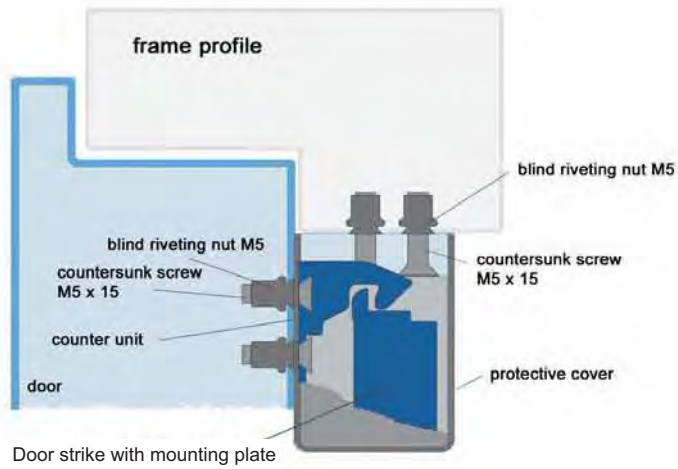
Assembly kit A04
for glass door

frame profile

blind riveting nut M5

glass
door leaf

filler pannel
pasted

mounting plate
pasted

counter unit A01
stilted

countersunk screw
M5 x 15

surface mounted housing A01

Door strike
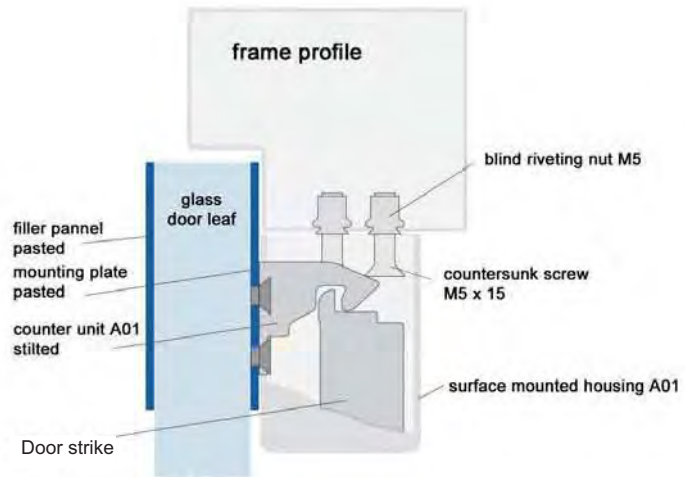
surface mounted
housing A01 with
mounting bracket A03

frame profile

mounting bracket

blind riveting nut

countersunk screw
M5 x 18

protective cover

fixed counterplate

counter unit

countersunk screw
M5 x 30

protective cover

Door strike with mounting plate
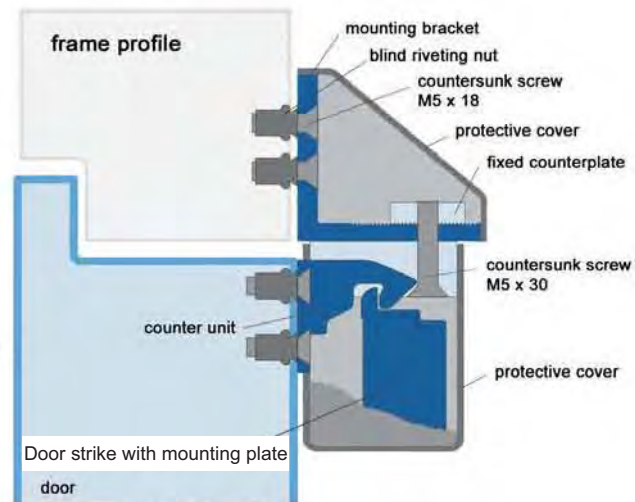
door

Locks

Motor lock 509x

Electric safety lock 809

The motor safety locks are **locked automatically** immediately following each time the door is closed. It is impossible to forget locking the door. This gives a maximum degree of security against burglary.

Lock and latch bolt are actuated by motor. This makes it possible to use this motor lock also in connection with motor-driven doors.

In an emergency, the **anti-panic function** provides a safe escape route. You can open the locked door at any time from the inside and leave the room.

The associated control unit allows a comfortable remote control. It can be combined with access control systems or other door systems without problem.

The motor safety locks have been tested by the Institute of Materials Testing (MPA) in Dortmund and approved for use in escape routes, fire barrier doors and intrusion-resistant doors. Available bolt lengths: 35 mm and 65 mm.

022085.10 |||||||||||||| **Motor lock DIN right-/left-hand bolt length 35 mm, type 509X**

- self-locking with cross latch bolt and lock;
- integrated anti-panic function via the internal strike;
- unlock of latch bolt and lock by electric motor;
- electric control via external motor lock control 022080.10;
- alternating function for unlocking from outside via key;
- automatic relocking;
- for universal use

EC Certificate of conformity 0432-BPR-0001 of the harmonised standard EN 179
Classification: 37601342A

EC Certificate of conformity 0432-BPR-0017 of the harmonised standard EN 1125
Classification: 37601341/2A

Technical Data	
Key bit position of the profile cylinder	max. 45°
Adjustment options	Panic side, DIN direction
Lock dimensions (W x H x D)	254 x 50 x 20.5 mm
Face plate (W x H x D)	300 x 24 x 3 mm
Dead bolt throw	20 mm
Follower	9 mm
Bolt length	35 mm
Distance	92 mm (European standard lock cylinder)

022087.10 |||||||||||||| **Motor lock DIN right-/left-hand bolt length 65 mm, type 509X**

- self-locking with cross latch bolt and lock;
- integrated anti-panic function via the internal strike;
- unlocking of latch bolt and lock by electric motor;
- electric control via external motor lock control 022080.10;
- alternating function for unlocking from outside via key;
- automatic relocking;
- for universal use;

EC Certificate of conformity 0432-BPR-0001 of the harmonised standard EN 179
Classification: 37601342A

EC Certificate of conformity 0432-BPR-0017 of the harmonised standard EN 1125
Classification: 37601341/2A

Technical Data	
Key bit position of the profile cylinder	max. 45°
Adjustment options	Panic side, DIN direction
Lock dimensions (W x H x D)	168.5 x 98 x 16.5 mm
Face plate (W x H x D)	235 x 24 x 3 mm
Dead bolt throw	20 mm
Follower	9 mm
Bolt length	65 mm
Distance	72 mm (European standard lock cylinder)

022080.10 | | **Motor lock control for type 509X**

- for controlling the motor safety lock of the 509X model series
- in the plastic housing for surface mounting
- four potential-free contacts 20 V AC/DC 0.8A; ohmic load
- for monitoring:
    - deadbolt unlocked
    - deadbolt locked
    - control latch
    - profile cylinder contact
    - door strike operation
- temporary and permanent unlocking options
- automatic locking in case of power failure

For use in fire barriers, a smoke protection switch approved by the building authority is additionally required.

Technical Data

Dimensions	192 x 110 x 45 mm
Type of protection	IP 40
Connection voltage range	12-24V DC (+/-15%)
Connection voltage range	12-18V AC (+15%...-10%)
Current consumption	No-load operation = 80 mA (12V) / 40 mA (24V)
Current consumption	Normal operating condition = 450 mA (12V) / 220 mA (24V)
Current consumption	Starting = 1300 mA (12V) / 600 mA (24V)
Re-locking interval	adjustable 2 - 15 sec
Temperature range	-20°C to +60°C

022081.10 | | **Connecting cable 10 m, 16-pin for motor lock 509X**

- 16-pin
- for safety lock 509X
- with plug attached on one side
- length 10 m

022082.10 | | **Flanged striking plate for motor lock 509X**
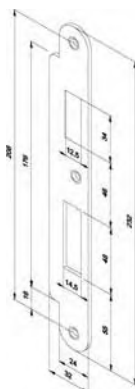
Universal DIN left- and right-hand, 12 mm
- for safety locks 509X;
- chromium-plated;
- for universal use;

Technical Data

Striking plate (W x H x D)	232 x 40 x 3 mm
Striking plate flange	176 x 16 mm

Electric safety locks type 809

Performance Features

- Self-locking
- Anti-panic function
- Auxiliary latch for automatic dead bolt throw
- Permanent opening possible from the room interior
- External handle free wheeling, can be enabled electrically
- Lock alternating function for key operation
- Monitoring function by integrated micro switch
- can be combined with escape door locking system
- increased protection against burglary through permanently locked door
- Approval for fire barrier door D 09.11, Test mark P120090197

These locks are self-locking panic locks with split follower for handle. The outer strike is at first without function (free wheeling), but can be enabled by electric activation.

Self-locking is done automatically. This means that the bolt is automatically extended when the door is closed.

The **anti-panic function** guarantees that the lock can be actuated from the inside without additional aids by anyone at any time.

When combined with electronic access control systems or a central control unit, it also offers, in addition to the simple activation, a multitude of monitoring options. To this end, **four potential-free switch contacts** are integrated in the lock, which allow to signal every operation in the lock.

Apart from its application as high-value alternative to previous lock systems in living areas and commercial buildings, the electric safety lock type 809 is the ideal product for securing safety-sensitive areas.

Designs C, D, E, F:

This design code is the last place of the type designation.

The designation of the locks is based on viewing the door from the outside, that is, from the side with free wheeling door strike, and not on the DIN approach.

Example: The lock 019050 designated as "right-hand, opens to the inside", corresponds to design E.

Technical Data

Rated operating voltage	12 V DC
Current consumption	220 mA
Relay contact rating	25 V DC/1 A
Type of protection	IP 30 (with built-in cylinder)
Requirement on mechanical strength according to DIN 1825	Class 4
Minimum load of the latch	5 kN
Minimum load of the sliding bolt	10 kN
Sliding bolt counter force	min. 4 kN
Material	Stainless steel (face plate)
Dead bolt throw	20 mm
Follower	9 mm
Length of the connecting cable	6 m
Dimensions	See drawing ..

ℹ️ The electric safety locks work by the load current principle and are available with bolt length 35 mm and bolt length 65 mm.

Locks with bolt length 65 mm

019050   ‖‖‖‖‖‖‖‖‖‖   **Electric safety lock 809**

Design E, right-hand, opening to the inside.

019051   Electric safety lock 809

Design F, right-hand, opening to the outside.

019052   Electric safety lock 809

Design C, left-hand, opening to the inside.

019053   Electric safety lock 809

Design D, left-hand, opening to the outside.

▶ **Locks with bolt length 35mm**

019054   Electric safety lock 809

Design E, right-hand, opening to the inside.

019055   Electric safety lock 809

Design F, right-hand, opening to the outside.

019056 ▌▌▌▌▌▌▌▌▌ **Electric safety lock 809**

Design C, left-hand, opening to the inside.

019057 ▌▌▌▌▌▌▌▌▌ **Electric safety lock 809**

Design D, left-hand, opening to the outside.

▶ **Accessories for safety locks**

022089 ▌▌▌▌▌▌▌▌▌ **Power supply unit, stabilised, 12 V DC / 1.3 A**

Technical information about locks with bolt lengths 35 mm and 65 mm

Switch functions

S1

S2

S1 = Bolt switching contact
S2 = External handle limit switch

S3 = External handle limit switch
S4 = Profiled cylinder contact

S3

S4

The electric safety locks work by the load current principle and are available with bold length 35mm or 65mm. Depending on the stop and the direction of opening, a distinction is made between designs C, D, E, and F.

This design code is the last place of the type designation. The designation of the locks is based on viewing the door from the outside, that is, from the side with free wheeling door handle, and not on the DIN approach.
Example:
The lock 019050 specified as "right-hand, opening to the inside", corresponds to design E.

The handles on the outside are free wheeling and can be enabled electrically, if and when required. This allows the door to be opend from the outside The handles on the inside can be used to open the door anytime, thus ensuring the panic function.

Design **C**

Inside

Outside

Design **D**

Inside

Outside

Design **E**

Inside

Outside

Design **F**

Inside

Outside

	B	C	D	
Euro-prof. cyl.	72	30	8	mm
swiss prof. cyl.	74	28	6	mm

Warning!
The dimensions B, C and D depend on the cylinder form to which the lock has been prepared.

Armatures for safety locks

The free wheeling function with split follower for handle make it necessary that the door strikes have an independent mechanical guidance. The safety armatures with core drawback protector included in the program have their design adapted to the electric safety lock and offer the required mechanical guidance and stability. The armatures are available in stainless steel or natural anodised aluminium.

019070   **Stainless steel armature for lock 809 with bolt length 35 mm**
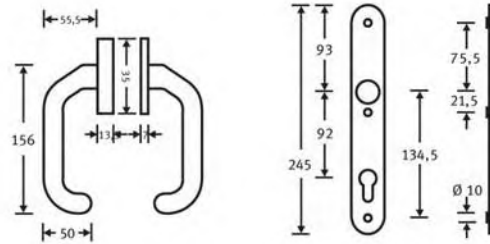
Armature for 35 mm of bolt length and 9-12 mm of cylinder spacing

019071   **Aluminium armature for lock 809 with bolt length 35 mm**
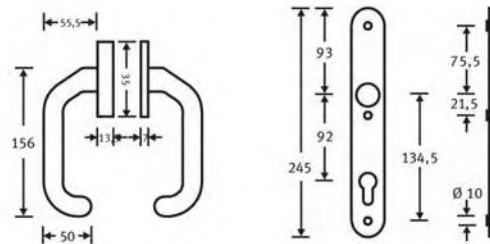
Armature for 35 mm of bolt length and 9-12 mm of cylinder spacing

019072   **Stainless steel armature for lock 809 with bolt length 65 mm**
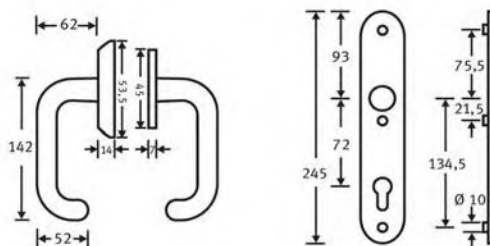
Armature for 65 mm of bolt length and 11-17 mm of cylinder spacing

019073   **Aluminium armature for lock 809 with bolt length 65 mm**
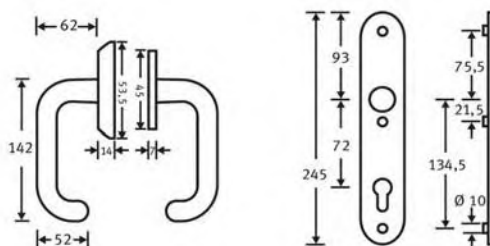
Armature for 65 mm of bolt length and 11-17 mm of cylinder spacing

▶ **Accessories**

The range of accessories is divided into the following components:
– Fixingscrews
– Handle pins for outside and inside
– Armatures
– Face plates
The components are adapted to one other, thus ensuring a problem-free installation of a complete lock with all add-on parts.

Fixing screws/handle pins
Depending on the door leaf thickness and the bolt length, different fixing screws and
external and internal handle pins are required. The selection of the fixing screws and handle pins
that you will require can be done by looking az the table. The table contains the appropriate item number.

External   handle pins

Dimension XF		Length	Item no.	
Bolt length:				
35mm	65mm			
14-17.6 mm	-	43 mm	**019220**	
17.5-21 mm	-	46.5 mm	**019221**	
21-24.5 mm	14.5-24.5 mm	50 mm	**019222**	
24.5-28 mm	-	53.5 mm	**019223**	
28-31,5 mm	-	57 mm	**019224**	
31.5-35 mm	25-35 mm	60.5 mm	**019225**	
35-38.5 mm	-	63 mm	**019226**	
38.5-42 mm	-	67.5 mm	**019227**	
42-45.5 mm	35.5-45.5 mm	71 mm	**019228**	
45.5-49 mm	-	74.5 mm	**019229**	
49-52.5 mm	-	78 mm	**019230**	
52.5-56 mm	46-58 mm	81.5 mm	**019231**	
56-77 mm	56.5-75 mm	100 mm*	**019232**	

*adjust on site

Internal   handle pins

Measurement XP		Length	Item no.	
Bolt length:				
35mm	65mm			
18-21.5 mm	-	38 mm	**019233**	
21.5-25 mm	-	41.5 mm	**019234**	
25-28.5 mm	17.5-27.5 mm	45 mm	**019235**	
28.5-32 mm	-	48.5 mm	**019236**	
32-35.5 mm	-	52 mm	**019237**	
35.5-39 mm	28-38 mm	55.5 mm	**019238**	
39-42.5 mm	-	59 mm	**019239**	
42.5-46 mm	-	62.5 mm	**019240**	
46-49.5 mm	38.5-48.5 mm	66 mm	**019241**	
49.5-53 mm	-	69.5 mm	**019242**	
53-56.5 mm	-	73 mm	**019243**	
56.5-60 mm	49-59 mm	76.5 mm	**019244**	

The graphic shows the relevant criteria
for determining each component
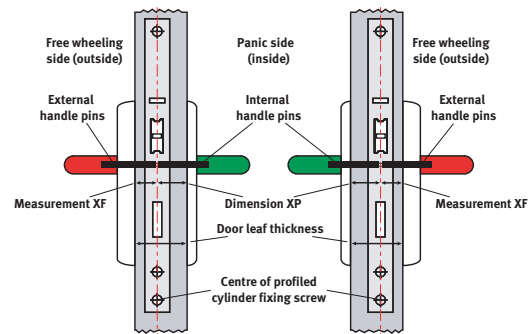
Fixing s crew s

Door leaf thickness	Length	Item no.	
33-37 mm	40 mm	**019200**	
38-42 mm	45 mm	**019201**	
43-47 mm	50 mm	**019202**	
48-52 mm	55 mm	**019203**	
53-57 mm	60 mm	**019204**	
58-62 mm	65 mm	**019205**	
63-67 mm	70 mm	**019206**	
68-72 mm	75 mm	**019207**	
73-77 mm	80 mm	**019208**	
78-82 mm	85 mm	**019209**	
83-87 mm	90 mm	**019210**	
88-92 mm	95 mm	**019211**	
93-97 mm	100 mm	**019212**	
98-102 mm	105 mm	**019213**	
103-107 mm	110 mm	**019214**	

▶ **Striking plates for safety locks**

As counter unit for the door lock, the striking plate is mounted in the door frame. Depending on the application, the frame structure and the safety requirements, different striking plates are available.

022090   **Adjustable striking plate**

For electric safety lock 809 and motor lock 509x.

019059   **Flat striking plate, 24 mm wide, for electric safety lock**

019060   **Flat striking plate, 20 mm wide, for electric safety lock**

019061   **Angled striking plate, DIN right-hand, for electric safety lock**

019062   **Angled striking plate, DIN left-hand, for electric safety lock**

019063   **Angled striking plate, DIN right-hand, for electric safety lock**

019064   **Angled striking plate, DIN left-hand, for electric safety lock**

▶ **Dimensional drawings of the striking plates**
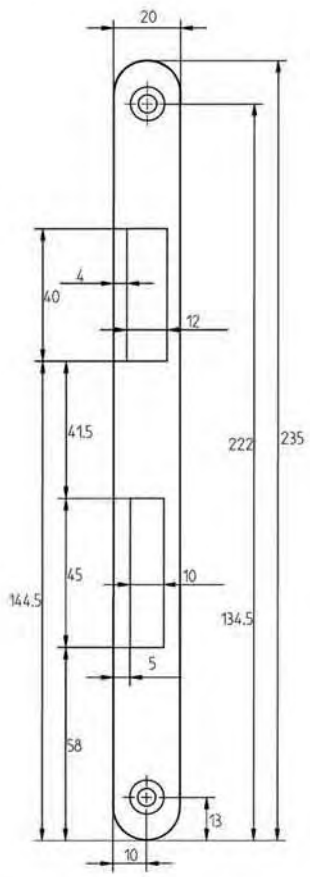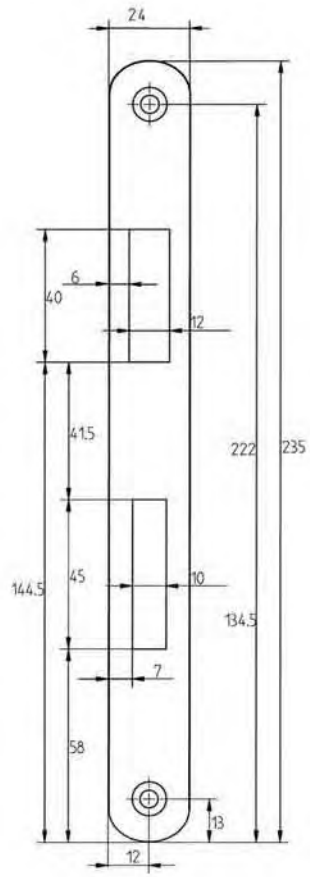
019060   019059
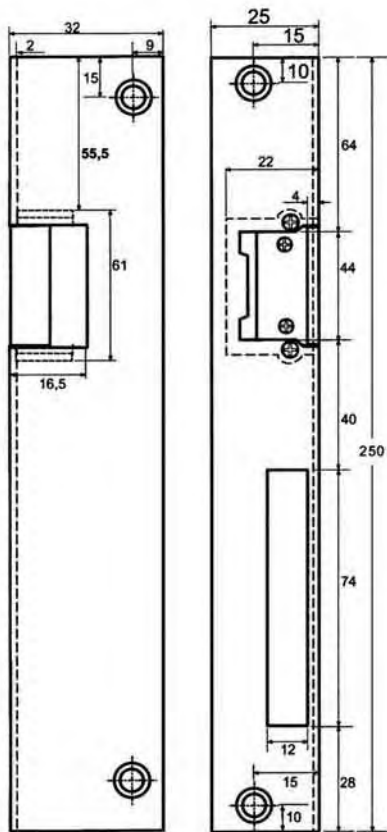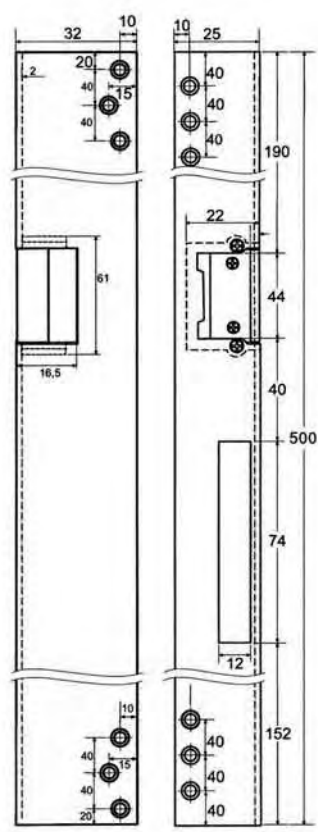
019062   019064
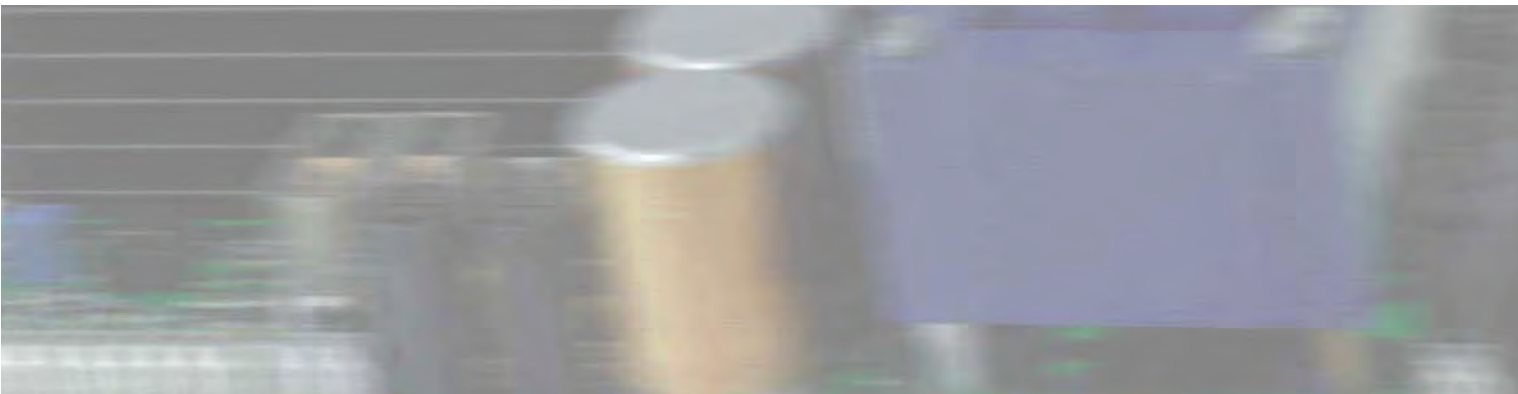
Power Supplies
Power supply units

For every application, a matching power supply unit/charger is available. The individual power supply units/chargers are distinguished in particular by their permanent accumulator monitoring, voltage stabilisation and current limitation.

The accumulators used in energy supply must have been tested and approved by the VdS. For the parallel connection of accumulators, only accumulators of the same type and age and from the same production series may be used. Moreover, the regulations according to DIN VDE 0833-1 must be observed.

Board version

010686.01 ▌▌▌▌▌▌▌▌▌▌▌ **Power supply unit/charger 230 V AC / 12 V DC / 17Ah**

|VdS| **Approval**   **G183012 (ID), Class C**

Fully electronic, voltage-stabilised and current-limited power supply unit/charger for redundancy standby operation with accumulator monitoring, designed for an accumulator capacity of up to 17 Ah.

Technical Data	
Rated connection voltage	230 V AC
Connection voltage range	230 V AC -15% to +10%
Mains frequency	50 to 60 Hz
max. charging current	0.7 A
max. continuous current	1.4 A
temporary continuous current drain (5 min.)	2.4 A
Accumulator capacity approved by VdS	max. 17 Ah, max. 2 accumulators connectable
Power consumption	36 VA
Dimensions (L x W)	215 x 92.5 mm

010690.01 ▌▌▌▌▌▌▌▌▌▌▌ **Power supply unit/charger 230 V AC / 12 V DC / 32 Ah**

|VdS| **Approval**   **G185054 (ID), Class C**

Fully electronic, voltage-stabilised and current-limited power supply unit/charger for redundancy standby operation with accumulator monitoring, designed for an accumulator capacity of up to max. 32 Ah.

Technical Data	
Rated connection voltage	230 V AC
Connection voltage range	230 V AC -15% to +10%
Mains frequency	50 to 60 Hz
max. charging current	1.1 A
max. continuous current	2 A
temporary continuous current drain (5 min.)	2.5 A
Accumulator capacity approved by VdS	32 Ah, max. 2 accumulators connectable
Power consumption	75 VA
Dimensions (L x W)	250 x 97.5 mm

010690.02 |‖‖‖‖‖‖‖‖‖‖‖‖‖   **Power supply unit/charger 230 V AC / 12 V DC / 40 Ah**

VdS   **Approval**   **G297021 (FD), G197099 (ID), Class C and EN 54-4**

Fully electronic, voltage-stabilised and current-limited power supply unit/charger for redundancy standby operation with accumulator monitoring, designed for an accumulator capacity of 40 Ah. According to EN 54-4 equipped with deep-discharging protection, monitoring of charging circuit and battery defect detection. In addition, 8 LEDs are available for trouble location.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC, -15% to +10%
Mains frequency	50 to 60 Hz
max. charging current	1.5 A
max. continuous current	1.5 A
temporary continuous current drain (5 min.)	2.2 A
Accumulator capacity approved by VdS	40 Ah, max. 2 accumulators connectable
Power consumption	100 VA
Board dimensions (L x W)	250 x 97.5 mm

Accessories
010693   NTC temperature sensor

012170 |‖‖‖‖‖ ‖ ‖‖   **Power supply unit/charger 230 V AC / 12 V DC / 130 Ah**

VdS   **Approval**   **G100030 (ID), Class C and EN 54-4**

Fully electronic, voltage-stabilised and current-limited power supply unit/charger for redundancy standby operation with accumulator monitoring, designed for an accumulator capacity of up to 130 Ah.
According to EN 54, Part 4, equipped with deep-discharging protection, monitoring of charging circuit and battery defect detection. In addition, 8 LEDs are available for trouble location.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC, -15% to +10%
Mains frequency	50 to 60 Hz
max. charging current	5.7 A
max. continuous current	5 A
temporary continuous current drain (5 min.)	7 A
Accumulator capacity approved by VdS	max. 130 Ah, max. 2 accumulators connectable
Power consumption	170 VA
Dimensions (W x H x D)	102 x 252 x 80 mm

Accessories
012171   ZG 4 housing for power supply
010693   NTC temperature sensor

Honeywell   **121**

► **Housing versions**

012141   ▮▮▮▮▮▮▮▮   **Power supply unit/charger 230 V AC / 12 V DC / 17 Ah**
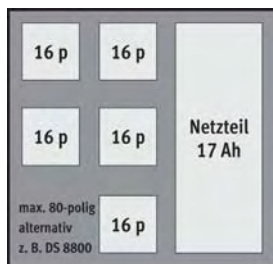
VdS **Approval**   **G183012 (ID), Class C**

Same as power supply unit/charger 12 V DC / 17 Ah (010686.01), but inside housing.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC, -15% to +10%
Mains frequency	50 - 60 Hz
max. charging current	0.7 A
max. continuous current	1.4 A
temporary continuous current drain (5 min.)	2.4 A
Accumulator capacity approved by VdS	max. 17Ah, max. 2 accumulators connectable
Power consumption	36 VA
Accumulator support	2 x 6.5 Ah
Environmental class according to VdS	II
Housing	Type ZG 2, 2 mm steel sheet
Dimensions (W x H x D)	350 x 300 x 152 mm
Steel sheet front door	powder-coated, printed
Colour	grey-white, similar to RAL 9002

ℹ️ Extension possible to include further distributor blocks, error signal fault transmitters, modem, and the like.

🚚 A 16-pin distributor has been built in by the factory.

Accessories
028050   VdS lock insert

010691   ▮▮▮▮▮▮▮▮   **Power supply unit/charger 230 V AC / 12 V DC / 20 Ah**
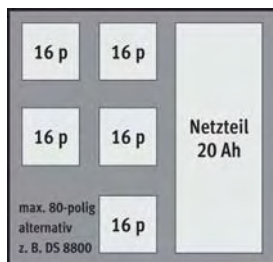
VdS **Approval**   **G185054 (ID), Class C**

Power supply unit/charger 010690.01 (12 V DC / 32 Ah) inside housing Accumulator for max. 20 Ah.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC, -15% to +10%
Mains frequency	50 - 60 Hz
max. charging current	1.1 A
max. continuous current	2 A
temporary continuous current drain (5 min.)	2.5 A
Accumulator capacity approved by VdS	20 Ah, max. 2 accumulators connectable
Power consumption	75 VA
Accumulator support	10 Ah or 1 accumulator 16 Ah
Environmental class according to VdS	II
Housing	Type ZG 2, 2 mm steel sheet
Dimensions (W x H x D)	350 x 300 x 152 mm
Steel sheet front door	powder-coated, printed
Colour	grey-white, similar to RAL 9002

ℹ️ Extension possible to include further distributor blocks, error signal fault transmitters, modem, and the like.

Accessories
028050   VdS lock insert

010692   ▐▌▌▐▌▌▐▌▌   **Power supply unit/charger 230 V AC / 12 V DC / 32 Ah**
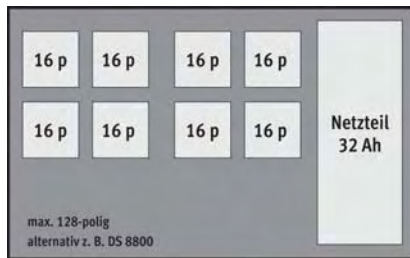
VdS **Approval**   **G185054 (ID), Class C**

Same as power supply unit/charger 12 V DC / 32 Ah, 01069001, but inside housing.

Technical Data	
Rated connection voltage	230 V AC
Connection voltage range	230 V AC, -15% to +10%
Mains frequency	50 - 60 Hz
max. charging current	1.1 A
max. continuous current	2 A
temporary continuous current drain (5 min.)	2.5 A
Accumulator capacity approved by VdS	32 Ah, max. 2 accumulators connectable
Power consumption	75 VA
Accumulator support	2 x 10 Ah, 1 x 25 Ah, 2 x 16 Ah
Environmental class according to VdS	II
Housing	Type ZG 3.1, 2 mm steel sheet
Dimensions (W x H x D)	500 x 300 x 210 mm
Steel sheet front door	powder-coated, printed
Colour	grey-white, similar to RAL 9002

ℹ️ Extension possible to include further distributor blocks, error signal fault transmitters, modem, and the like.

Accessories
028050   VdS lock insert

012169   ▐▌▌▐▌▌▐▌▌   **Power supply unit/charger 230 V AC / 12 V DC/ 24 V DC / 80 Ah**

VdS **Approval**   **G199022 (ID), Class C and EN 54-4**

Same as power supply unit/charger 12 V DC / 80 Ah, 012168, but inside housing.

Fully electronic 12 V DC power supply unit/charger with 24 DC output. Voltage-stabilised with current limitation and redundancy standby operation with accumulator monitoring and deep-discharging protection. Monitoring of charging circuit and battery defect detection. The robust steel sheet housing, type ZG 3.1, with LED display for "Mains available" and "Failure" has room for 2 x 40 Ah accumulators.

Technical Data	
Rated connection voltage	230 V AC
Connection voltage range	230 V AC, -15% to +10%
Mains frequency	50 - 60 Hz
Power consumption	170 VA
Output	12/24 V DC
Continuous current	max. 0.8 A, at 24 V DC output
Continuous current	max. 3.5 A, at 12 V DC output
temporary continuous current drain (5 min.)	5 A max.
Accumulator capacity	80 Ah max.
Number of connectable accumulators	max. 2
Operating temperature range	-5 °C to +70 °C
Storage temperature range	-25 °C to +70 °C
Environmental class according to VdS	II
Dimensions (W x H x D)	500 x 300 x 210 mm
Colour	grey-white, similar to RAL 9002

Accessories
010693   NTC temperature sensor

▶ **Small power supply units**

094051   ‖‖‖│‖│‖‖   **Power supply unit 230 V AC / 12 V DC / 0.5 A**

The power supply unit provides 2 x 12 V DC, 1 x stabilised, 1 x non-stabilised and non-smoothed.

Technical Data	
Rated connection voltage	230 V AC
Connection voltage range	230 V AC +10% to -15%
Mains frequency	40 Hz to 60 Hz
Output voltage	12 V DC stabilised
Output voltage	12 V DC non-stabilised, non-smoothed
Output current	max. 500 mA
Type of protection	IP 40 according to DIN40050
Environmental class	II according to VdS
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	151.5 x 45 x 79 mm
Colour	grey-white, similar to RAL 9002

ℹ️ A total current (sum of both outputs) of max. 500 mA can be drained, for example output 1 = 100 mA, output 2 = 400 mA.

▶ **Accessories**

010693   ‖‖‖│‖│‖‖   **NTC temperature sensor**

Including connecting cable 50 cm long.
For power supply units/chargers 012168, 012170 and 010690.02, for optimising the temperature-controlled accumulator charging voltage. Required when accumulators are not in the immediate proximity of the power supply unit/charger.

ℹ️ The NTC temperature sensor is mandatory for VdS systems.

🚚 Including connecting cable 50 cm long.

028050   ‖‖‖│‖│‖‖   **VdS lock insert**

According to VdS for commercial use, for example for retrofitting housings.

ℹ️ The VdS lock insert is delivered with the Schulte 1k101 model.
For alarm central units, no identical locks may be used.

🚚 2 keys

Accumulators

The listed lead accumulators are maintenance-free, closed accumulators containing a solid electrolyte. They operate independent of location, are exhaustive discharge protected, cycle-resistant, long-lived (4 to 5 years) and designed for maximum load. At an ambient temperature of +20°C, their charging voltage is: 12 V DC accumulator (6 x 2.3 V per cell) 13.8 Volt

> The accumulators meet the VDE 0833 - 1 guidelines for hazard detection systems and are VdS-approved.
> According to the VdS guidelines, the accumulators should be replaced, if not stated otherwise in the approval certificate, at least every four years.
> Please make sure that the batteries to be used from the same manufacturer have the same date of manufacture and the same capacity.

018001   **12 V DC accumulator / capacity 1.2 Ah**

Technical Data	
Dimensions (W x H x D)	98 x 53 x 43 mm

018002   **12 V DC accumulator / capacity 1.9 Ah**

Technical Data	
Dimensions (W x H x D)	176 x 60 x 33 mm

018003   **12 V DC accumulator / capacity 2.6 Ah**

Technical Data	
Dimensions (W x H x D)	134 x 60 x 67 mm

018004   **12 V DC accumulator / capacity 6.5 Ah**

Technical Data	
Dimensions (W x H x D)	150 x 95 x 65 mm

018005 12 V DC accumulator / capacity 10 Ah

Technical Data	
Dimensions (W x H x D)	151 x 93 x 97 mm

018011 12 V DC accumulator / capacity 12 Ah

Technical Data	
Dimensions (W x H x D)	150 x 94 x 97 mm

018007 12 V DC accumulator / capacity 17 Ah

Technical Data	
Dimensions (W x H x D)	180 x 167 x 77 mm

018006 12 V DC accumulator / capacity 24 Ah

Technical Data	
Dimensions (W x H x D)	165 x 122 x 174 mm

018008 12 V DC accumulator / capacity 38 Ah

Technical Data	
Dimensions (W x H x D)	197 x 170 x 165 mm

018010 12 V DC accumulator / capacity 65 Ah

Technical Data	
Dimensions (W x H x D)	267 x 187 x 162 mm

Accessories

785753   ‖‖‖‖‖‖‖   **Accumulator kit**

Mounting kit accumulator connecting terminals M5/M6 for 4.8 mm plug.

[i] Required for connecting accumulator types 018006, 018008, 018010.

🔲 2 x clamps

Batteries

018050   ‖‖‖‖‖‖‖   **3 V lithium battery**

Technical Data	
Round cell	3 V / 950 mAh /type: CR2477N

Notes

Network Components
Bus controllers
Interface converter
Interfaces

The bus controller controls the zone change control and the communication between the PC and the connected terminals.

▶ **Bus controllers**

026815.10 |||||| ||||||||||||| **External bus controller**

Performance Features

- Management of 32 bus users (single-mode)
- free slot for host interface (1200 - 38,400 baud) RS 232 / Ethernet
- 2 free slots for interfaces to bus users (1200 - 76,800 baud) RS 485 / Current Loop
- intelligence of its own due to microprocessor
- hardware-independent
- integrated power supply unit
- Connections possible for emergency power supply

The three slots in the bus controller can be assigned as follows:

1x input interface (from/to host)
- RS 232
- Ethernet

2x output interface (from/to terminals)
- RS 485
- Current loop

PC connecting cable 026811.10.
9-pin plug and sockets not included.

Accessories

026840.03	Asynchronous RS 232 host interface
026692	RS 485 5-wire interface without potential separation
026693	RS 485 5-wire interface with potential separation
026840.16	4-wire current loop interface
026840.28	Fast Ethernet interface
018050	3 V lithium battery
018001	12 V DC accumulator / capacity 1.2 Ah

026816 |||||| ||||||||| **Internal bus controller (PC/plug-in card)**

Performance Features

- Can be housed space-saving in the PC
- max. 4 slot cards per PC
- autom. configuration of base addresses and interrupts
- each PCI slot card replaces 2 ext. bus controllers (2 bus lanes individually controllable, max. 2 spurs per lane)
- 32 bus users per lane
- 3- and 5-wire linkup
- higher performance than with the external bus controller

The PC slot card in the PCI format provides two separate RS 485 outputs, replacing two external bus controllers.

Technical Data

Insulation	min. 1 kV
Fuse protection of the signal line	15 kV to the PC according to IEC 801-2, level 4
Baud rate	19,200
Data format	any
Signal	RxD, TxD, RTS, CTS, DSR, DCD, DTR, RI
Interfaces	2 x RS 485, galvanically separated
Plug connection	2 x 9-pin SUB-D
Dimensions (L x W)	120 x 106 mm
Weight	approx. 110 g

No antipassback control possible with MultiAccess for Windows.
Is supported by NovaTime from 2004. Antipassback control in IQ MultiAccess can only be recommended with ACS-2 / ACS-8.

PCI card 2 x RS 485, 1 kV insulated.
Licence for driver software.

▶ **Accessories - Bus controller**

026559 |||||| ||||||||| **EPROM update, external bus controller**
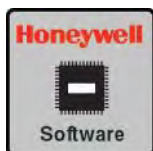
The EPROM update updates the software version of the external bus controller 026815.00.

026810.10 ▐▌▌▌▐▌▐▌▐▌▐▌▐▌▐▌▐▌▌▌▐▌ **Connecting cable from the PC to the external bus controller**

Suitable for Art. No.: 026 815.00/.10 with RS 232 interface.

Technical Data	
Connecting plug	25-pin/socket - 9-pin/socket
Length	2 m

026811.10 ▐▌▌▌▐▌▐▌▐▌▐▌▐▌▐▌▐▌▌▌▐▌ **Connecting cable from the PC to the external bus controller**

Suitable for Art. No.: 026 815.00/.10 with RS 232 interface.

Technical Data	
Connecting plug	9-pin/socket - 9-pin/socket
Length	2 m

026814.10 ▐▌▌▌▐▌▐▌▐▌▐▌▐▌▐▌▐▌▌▌▐▌ **Connecting cable from the modem to the external bus controller**

Suitable for Art. No.: 026 815.00/.10 with RS 232 interface.
Connecting cable external bus controller (9-pin) and modem at the remote site (25-pin).

Technical Data	
Connecting cable	25-pin/socket - 9-pin/socket
Length	2 m

▶ **Interface converter**

026884.00 ▐▌▌▌▐▌▐▌▐▌▐▌▐▌▐▌▐▌▌▌▐▌ **Interface multiplier / converter**

This interface multiplier/converter can be used universally for RS 232, Current Loop, RS 485 (5-wire) interfaces. It always contains slots for one input and a maximum of eight outputs. However, no more than four RS 485 interfaces with potential separation may be used.

026817.03 ▐▌▌▌▐▌▐▌▐▌▐▌▐▌▐▌▐▌▌▌▐▌ **Interface converter**

This interface converts has an RS 232 interface connection at the input and two RS 485 interface connections connected in parallel at the output, (either 3-wire or 5-wire, as desired). In addition, this unit has a power supply unit (integrated in the RS 485 plug output) of 12 V / 0.8 A DC.

🔌 Without connecting cable 026809.
9-pin plug and sockets not included.

Accessories - Interface converter

026809   PC interface converter connecting cable

The cable is used for connecting a PC to an interface converter 026817.03 or an ACS-2 and ACS-8 for hardware setup.

Technical Data	
Connecting plug	9-pin/socket - 9-pin/socket
Length	2 m

026109   PC adapter cable RS 232/9-pin Sub-D

Equipped with 3-pin plug connector for connecting a PC and ACT control in case of direct connection.

Technical Data	
Length	approx. 2 m
Connecting plug	9-pin / socket 3-pin / plug connector

Modem

058200   High-speed modem V.90 external

External unit with plug-in power supply

Not for intrusion detection central unit 100-AB8/AWUG.
For access control: Connection to ACS-1 directly via remote data transmission interface card 026480.18. Connection to ACS-8 directly without interface card. Connection to PC or bus controller via RS 232. It is strongly recommended using only this mode for connection of remote locations to the AC.

German manual, connecting cable RJ11 to TAE N, RS 232 connecting cable 25M to 9/25 F.

Performance Features

- HAYES AT compatible
- Pulse and multi-frequency dialling, full and semi-duplex
- Auto dial, Auto answer, automatic switchover between data and voice transmission
- V.24 bis /MNP5 data compression
- FAX according to V.17, V.33, V.29 and V.27ter
- Compatible with CCITT V.21, V.22, V.22 bis / V.32 / V.32 bis / 34 V, K 56 flex, V.90 (up to 56,000 baud)

ℹ️ The listed interfaces are designed for in-house operation.
The line length of the potential-separated RS 485 interface is max. 1200 m.
The RS 232 interface supports max. 15 m.
When coupled via the Current Loop interface, the maximum distance is 2000 m.
For bus systems, an RS 485 interface without potential separation must be used. To ensure safe data exchange, an interface with potential separation is recommended for the remaining units.

▶ **Interface cards**

026840.03 |||||| || |||||||||||||||| **Asynchronous RS 232 host interface**

2400 to 19,200 baud.
Max. cable length 15 m.
For ACS-1, ACS-2, ACS-8, bus controller, interface multiplier, TRS 8, TRS 15, TRS 35.

026692 |||||| || ||||||| **RS 485 interface (5-wire and 3-wire)**

Without potential separation.
Max. cable length 1,200 m.
For ACS-1, ACS-2, ACS-8, ACT, bus controller, interface multiplier, TRS 8, TRS 15, TRS 35.

026693 |||||| || |||||||| **RS 485 interface (5-wire and 3-wire)**

Potential separation can be enabled/disabled via jumper.
Max. cable length 1,200 m.
For ACS-1, ACS-2, ACS-8, ACT, bus controller, interface multiplier, TRS 8, TRS 15, TRS 35.

026840.16 |||||| || |||||||||||||||| **Current loop interface**

Max. cable length 2000 m.
For ACS-1, ACS-2, ACS-8, ACT, bus controller, interface multiplier, TRS 8, TRS 15, TRS 35.

026840.28 |||||| || ||||||||||| |||| **Ethernet interface 10/100 Mbits/s**

Switches automatically for 10 / 100 Mbits/s.
For ACT, ACS-2 plus, ACS-8, bus controller, TRS-8, TRS-15, TRS-35.

027901 ||||||| |||||| ||| **Reader converter board**
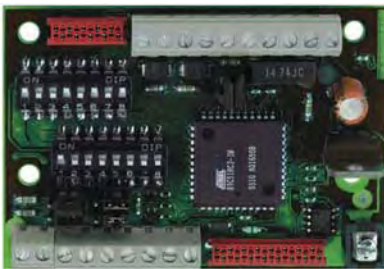
This converter board makes it possible to operate readers and biometric systems from other manufacturers and older Esser and effeff readers at the access control central units ACT, ACS-2 plus and ACS-8. As-delivered, the board is built into a housing, to allow it to be installed independent of the constructional situation. However, it is also possible to integrate it in the ACS-8.

External reader input:
- Clock/Data
- Wiegand

Interface to access controler:
- RS-232 (same as reader 026380.00 or read-in station 026490)
- RS485
- Clock/Data (only with certain readers)

Readers from the following external manufacturers are supported:
Deister, HID, Simons & Voss, Indata, Westinghouse and different biometrics systems.

The exact types as well as other types are available upon request.

Technical Data	
Rated operating voltage	12V DC
Operating voltage range	9V DC to 15V DC
Current consumption	25mA + reader current
Type of protection	IP 30
Operating temperature range	-10°C to +55°C
Environmental class according to VdS	II
Housing colour	grey-white
Dimensions (L x W x H)	72 x 50 x 23
Board dimensions in the housing (L x W x H)	109 x 85 x 30

Service

Installation and Service

054682   ▌▌│▌│▌▌│▌│▌   **Manual for planning and projects**

The planning manual contains all important information ranging from the definition of terms to extensive practice-oriented planning examples for planning a AC system.

ℹ️ Only available in German

Spare Parts

012171 ‖‖‖‖‖‖‖‖ **ZG 4 housing for power supply 012170**

Empty housing for integrating the power supply unit/charger 012170.

Technical Data	
max. accumulator supports	2 x 65 Ah accumulators
Housing	2 mm steel sheet, powder-coated
Weight	approx. 25.8 kg (empty)
Dimensions (W x H x D)	580 x 640 x 300 mm
Colour	grey-white, similar to RAL 9002

Accessories
010693   NTC temperature sensor with connecting cable 50 cm
028050   VdS lock insert, compl. for central units and door code control unit

▶ **MultiAccess for Windows**

027018 ‖‖‖‖‖‖‖‖ **Later option extension**

Can only be ordered in connection with an additional option art. no. 027021 to 027032.

027021 ‖‖‖‖‖‖‖‖ **Database extension by 100 master records**

For 201 to 1000 employees.

027022 ‖‖‖‖‖‖‖‖ **Database extension by 100 master records**

For 1001 to 10,000 employees.

027023 ‖‖‖‖‖‖‖‖ **Antipassback control**

The antipassback control prevents access to an adjacent area when a person with authorised access is not registered as present in the area he/she is in. Also for ACS-8.

027024 ‖‖‖‖‖‖‖‖ **MultiAccess for Windows remote data transmission up to 99 remote sites**

Up to 99 remote sites can be connected. For the supported dialling modems, see chapter "Network components".

027025 ‖‖‖‖‖ ‖‖‖‖‖‖ **MultiAccess for Windows network version**

MultiAccess for Windows can be used in an existing network at up to 64 workstations.

027026 ‖‖‖‖‖ ‖‖‖‖‖‖ **Database extension by 500 master records**

For 10,001 to 65,500 employees.

027027 ‖‖‖‖‖ ‖‖‖‖‖‖ **Virtual panel for zone change control option**

Optional component of access control software for the virtual display of a real panel on the monitor of a workstation.
A maximum of 32 persons per panel can be displayed. A combination of real and virtual panels is possible. Several virtual panels can be displayed on a monitor of a workstation.

027030 ‖‖‖‖‖ ‖‖‖‖‖‖ **Process visualisation for MultiAccess for Windows**

Possesses flexible, window-oriented graphics, high adjustability to the object circumstances.
Integration of video sequences possible. As standard feature, it is equipped with the Microsoft Access database.

027032 ‖‖‖‖‖ ‖‖‖‖‖‖ **Activation of web cameras**

Licence / software extension of the AC software with the "Activation of a Web Camera" function to include live images, for example of actions or for image comparison in the case of photos of employees stored in the personal records, "gate keeper function".

027046 ‖‖‖‖‖ ‖‖‖‖‖‖ **MultiAccess for Windows upgrade to latest version**

ℹ PC requirements:
- min. 400MHz, 128MB RAM
- Operating system Windows 2000 / Windows NT 4.0. / XP
- CD drive, at least one unused serial interface

For network applications:
- Network card with TCP/IP protocol

For remote data transmission:
- A modem certified by Novar or an ISDN card
- Hardware requirement ACS-1
- from software version V06.XX

027015　　　▮▮▮▮ ▮▮▮▮▮　**MultiAccess 7.x upgrade to latest version**

MultiAccess 7.X (V01.10) to MultiAccess for Windows.

PC requirements
- min. 400MHz, 128MB RAM
- Operating system Windows 2000 / Windows NT 4.0. / XP
- CD drive, at least one unused serial interface

For network applications:
Network card with TCP/IP protocol

For remote data transmission:
- A modem certified by Novar or an ISDN card
- Hardware requirement ACS-1
- from software version V06.XX

027545　　　▮▮▮▮ ▮▮▮▮▮　**Front plate kit for slot readers, white**

For slot reader module 026470.10.

Maße (mm):

Dichtung 2 mm stärke

99,0

99,0
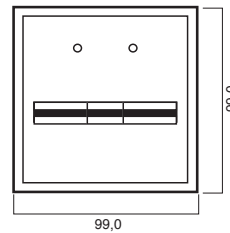
Dimensional drawing　　18,0　　104,0
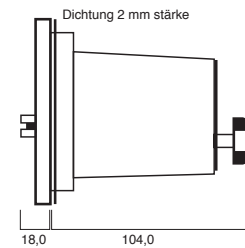
027546　　　▮▮▮▮ ▮▮▮▮▮　**Front plate kit for slot readers, titanium**

For slot reader module 026470.10.

Maße (mm):

Dichtung 2 mm stärke

99,0

99,0
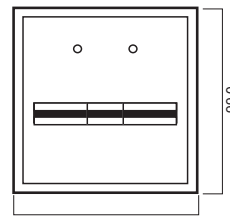
Dimensional drawing　　18,0　　104,0
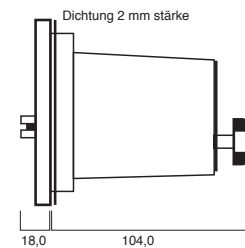
027547   ‖‖‖‖‖ ‖ ‖‖‖‖‖‖ ‖‖   **Front plate kit for slot readers, silver**

For slot reader module 026470.10.

Maße (mm):

Dichtung 2 mm stärke

99,0

99,0

18,0   104,0
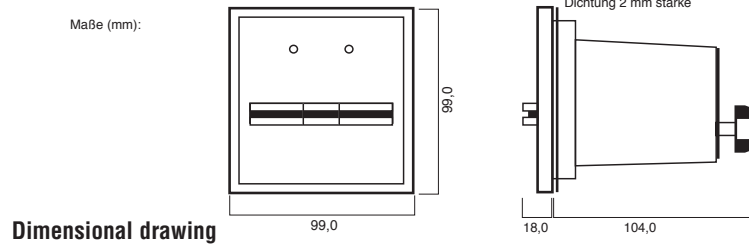
Dimensional drawing

027548   ‖‖‖‖‖ ‖‖‖‖‖ ‖‖   **Front plate kit for slot readers, graphite brown**

For slot reader module 026470.10.

Maße (mm):

Dichtung 2 mm stärke

99,0

99,0

18,0   104,0
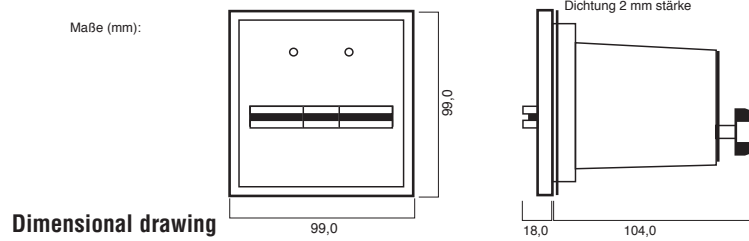
Dimensional drawing

027580   ‖‖‖‖‖ ‖‖‖‖‖ ‖   **"Plug in" magnetic card reader, plastic housing**

RS 485 and Clock/Data interfaces

Abmessungen (in mm):
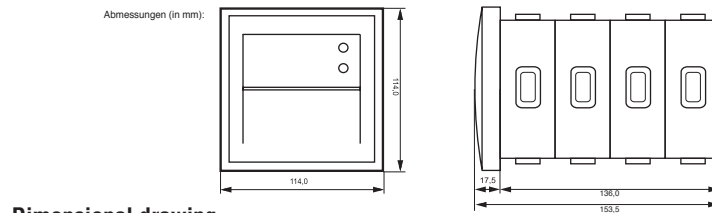
114,0

114,0

17,5   136,0

153,5

Dimensional drawing

026000.10   **ID magnetic card (coded), printed**

Magnetic card according to ISO standard 7810
Laminated polyvinyl chloride (PVC).
Ground white with print and three-line label box.

Technical Data	
Format	85.7 x 54 x 0.8 mm
Magnetic stripe	coded according to DIN 9785 (HICO)

026000.11   **ID magnetic card (coded)**
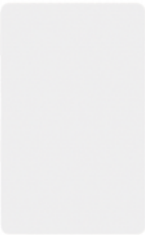
Magnetic card according to ISO standard 7810
Laminated polyvinyl chloride (PVC).
Ground neutral white.

Technical Data	
Format	85.7 x 54 x 0.8 mm
Magnetic stripe	coded according to DIN 9785 (HICO)

026003.10   **ID magnetic card (uncoded), printed**

Magnetic card according to ISO standard 7810
Laminated polyvinyl chloride (PVC).
Ground white with print and three-line label box.

Technical Data	
Format	85.7 x 54 x 0.8 mm
Magnetic stripe	coded according to DIN 9785 (HICO), see coding service

026004.00   **Single Wiegand card, (10 to 99 units)**

Performance Features

• 56-bit coding

Polyvinyl chloride (PVC). Ground white with red Honeywell logo and three-line label box.

Technical Data	
(W x H x D)	85.7 x 54 x 1.1 mm

🚚 From 10 units

026004.01   **Single Wiegand card, (100 to 999 units)**

Performance Features

• 56-bit coding

Polyvinyl chloride (PVC). Ground white with red Honeywell logo and three-line label box.

Technical Data	
(W x H x D)	85.7 x 54 x 1.1 mm

🚚 From 100 units

026004.02   **Special expense for setup cost, article no. 026004.00**

026006.10 | Single infrared card, (10 to 99 units) white

Performance Features
• 56-bit coding

|VdS| **Approval**   **Infrared card according to ISO standard 7810**

Polyvinyl chloride (PVC). Ground white with grey field and continuous numbering.

Technical Data

(W x H x D)	85.7 x 54 x 0.8 mm

From 10 units

026006.11 | Single infrared card, (100 to 999 units) white

Performance Features
• 56-bit coding

|VdS| **Approval**   **Infrared card according to ISO standard 7810**

Polyvinyl chloride (PVC). Ground white with grey field and continuous numbering.

Technical Data

(W x H x D)	85.7 x 54 x 0.8 mm

From 100 units

026007.00 | Single inductive card, (10 to 99 units)

Performance Features
• 32-bit coding for a maximum of 4095 badges

|VdS| **Approval**   **Inductive card according to ISO standard 7810**

Polyvinyl chloride (PVC). Ground white with red Honeywell logo.

Technical Data

(W x H x D)	85.7 x 54 x 1 mm

From 10 units

026007.01 | Single inductive card, (100 to 999 units)

Performance Features
• 32-bit coding for a maximum of 4095 badges

|VdS| **Approval**   **Inductive card according to ISO standard 7810**

Polyvinyl chloride (PVC). Ground white with red Honeywell logo.

Technical Data

(W x H x D)	85.7 x 54 x 1 mm

From 100 units

026007.10 | Single inductive card, (10 to 99 units)

Performance Features
• 65-bit coding

Polyvinyl chloride (PVC).

Technical Data

(W x H x D)	85.7 x 54 x 1 mm

From 10 units

026010.92 | Magnetic slot reader without motor

026010.93 ||||||||||||||||||||||||| **Magnetic slot reader, magnetic head**

026011.00 ||||||||||||||||||||||||| **Magnetic slot reader, flush-mounted**

Clock/Data interface
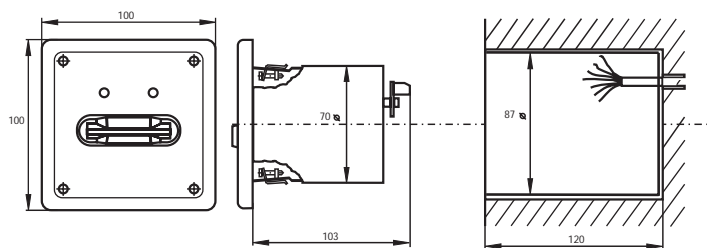
Dimensional drawing

026028.00 ||||||||||||||||||||||||| **Cleaning set for slot readers**

The cleaning set is suitable for all magnetic slot and swipe readers.
This cleaning set consists of a cleaner and five cleaning cards.

026053.00 ||||||||||||||||||||||||| **Magnetic card swipe reader, surface-mounted**

Clock/Data interface
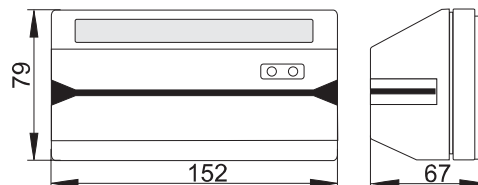
Dimensional drawing

026095.01 ‖‖‖‖‖‖‖‖‖‖‖ **Battery for data maintenance of control unit**

Included in the delivery of the control unit.

026163.00 ‖‖‖‖‖‖‖‖‖‖ **Magnetic slot reader, tracks 2 and 3 for bank system 026155.00**
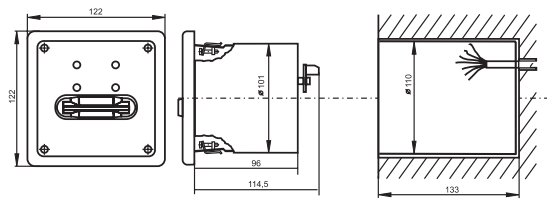
Dimensional drawing

026181.00 ‖‖‖‖‖‖‖‖‖‖‖ **Inductive slot reader, surface-mounted, (65-bit)**

026183.00 ‖‖‖‖‖‖‖‖‖‖‖ **Inductive slot reader, flush-mounted, (32-bit)**

026250.00 ‖‖‖‖‖‖‖‖‖‖‖ **ACS-1 standard system with magnetic slot reader**

For 230 V AC power supply

Performance Features

- Connection for an additional external badge reader and code keypad
- integrated 2 x 16-digit alphanumeric LC display for comfortable operator guidance
- ergonomic membrane keypad for entering code and programming the unit

026250.01 |||||| || |||||||||||||| || **ACS-1 standard system without integrated badge reader**

For 230 V AC power supply

includes lithium battery for data maintenance of the ACS-1 standard system

Performance Features

• Connection for two external badge readers and
  two external keypads (for entering code)
• other performance data as for 026250.00

026250.02 |||||| || |||||||||||||| || **ACS-1 control unit (slave terminal)**

Equipped with 230 V AC power supply without integrated badge reader without display and
keypad. Control unit for programming via PC using MultiAccess / Novatime software.

includes lithium battery for data maintenance of the ACS-1 standard system

Performance Features

• Connection of 2 badge readers and keypads

026250.75 |||||| || |||||||||||||| || **Controller board, SMD for ACS-1**

026253.00 |||||| || |||||||||||||| || **128 kByte RAM memory card for ACS-1**

For: 2000 persons, min. 4600 events.

026254.00 ||||||||||||||||||||| **256 kByte RAM memory card for ACS-1**

For: 5000 persons, 7200 events.

026254.01 ||||||||||||||||||||| **512 kByte RAM memory card for ACS-1**

For: 9990 persons, 7200 events.

026840.18 ||||||||||||||||||||| **Remote data transmission interface for ACS-1**

This card can be used to connect the ACS-1 directly to a modem. This card is supported from software version V.05.XX.

026239.00 ||||||||||||||||||||| **Two-door expansion card**

This card can be used to control a second door with the ACS-1. Only one reader can be connected for each door. The card is supported by software version V.05.XX and upgrades.

026242.00 ||||||||||||||||||||| **4-input/output card**

Function 1: Four relays can be controlled in interaction with the corresponding input and a card assigned to it.
Function 2: Arming/disarming of an intrusion detection system using conventional technology.
This card is supported by software version 3.10 and upgrades.

026242.10 |||||| ||| |||||||||||| |||| **8-relay card**

Eight relays which can be used to start any switching operation. This card is supported by software version 3.10 and upgrades.

026242.20 |||||| ||| ||||||||||||| ||| **8-input card**

The 8-input card provides four galvanically-isolated optocoupler inputs and four non galvanically-isolated inputs. The card is supported by software version V.05.XX and upgrades.

026275.00 |||||| || |||||||||||||||| **Accumulator 12 V/ 0.6 Ah for ACS-1**

Internal accumulator (nickel/cadmium).

026277.00 |||||| ||||||||||||||| ||| **Protective housing for flush-mounted EC card readers**

Protective housing against the effects of weather for EC card readers for flush mounting. Fits readers 026160.00, 026162.00 and 026163.00

Technical Data	
Dimensions (W x H x D)	150 x 145 x 60 mm

026278.00 |||||| ||| |||||||||||||| |||| **Protective housing for flush-mounted readers**

Protective housing against the effects of weather for slot and motorised readers for flush mounting.

Technical Data	
Dimensions (W x H x D)	150 x 145 x 60 mm

026279.00 |||||| ||| |||||||||||||| |||| **Protective housing for surface-mounted swipe readers**

Protective housing against the effects of weather for swipe readers for surface mounting.

Technical Data	
Dimensions (W x H x D)	232 x 155 x 125 mm

026281.00 |||||| ||| |||||||||||||| |||| **Upright column for ACS-1 surface-mounted units and slot readers**

Elegant upright column having high mechanical strength (colour similar to RAL 9002).

026294.00 |||||| ||| |||||||||||||| |||| **Magnetic card f. ACR 50**

026349.00 |||||| ||| |||||||||||||| |||| **Programming card set for chip cards**

When connected to the ACU 026315.10.

026379.10 |||||| ||| |||||||||||||| |||| **Membrane for contactless readers**

026387.10 |||||||| ||||||||||||| **Membrane for reader 026387.00**

026394.00 ||||||| ||||||||||||| **ID key fob for contactless reader**

026397.00 ||||||| || ||||||||| ||| **Spacing piece for reader 026399.00 for surface mounting**

026398.00 ||||||| || |||||||||| ||| **ID key fob for contactless reader**

026430.10 ||||||| |||| |||||||||| ||| **Magnetic card resistant to breakage, cod., HICO**

026468.01 ||||||| || ||||||||||| ||| **J2K firmware upgrade ACS-1**

026470.10 | | **Slot reader module for magnetic cards**

RS 485 and Clock/Data interfaces

026471.10 | | **Motorised reader module for magnetic cards**

RS 485 and Clock/Data interfaces

026472.00 | | **Swipe reader module for magnetic cards**

Clock/Data interface

026841.04 | | **1Ah accumulator block for mounting, TRS 20,**

▶ **proX proximity readers, classic design**

026366.00   ‖‖‖‖‖‖ ‖ ‖‖‖‖‖‖‖‖ ‖‖ ‖‖   **"Classic" proX1 proximity reader**

Clock/Data interface
Reading range 25 cm, not suitable for outdoor use
Reads proX1 and IK2 proximity ID cards.

Technical Data	
Rated operating voltage	12 V DC
Operating voltage range	11 V DC to 15 V DC
Interface	Clock/Data
Current consumption	400 mA + 12 mA/LED
Type of protection	IP 40
Transmission frequency	125 kHz
Operating temperature range	-25°C to +60°C
Environmental class according to VdS	III (drip-proof)
Reading range	approx. 25 cm
Housing colour	grey-white
Membrane colour	light-grey

Article to be discontinued by 30.09.2006

T = 32

146

196
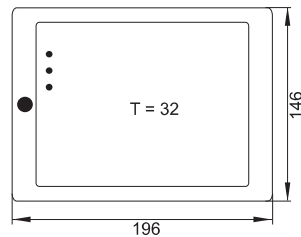
Dimensional drawing

▶ **Plug-in proximity reader**

One mounting frame, plug-in flush-mounted box and any spacers that may be necessary are
included in the delivery.

027575   ‖‖‖‖‖ ‖ ‖‖ ‖‖‖   **Proximity reader, "Plug-in" plastic housing**

RS 485 and Clock/Data interfaces
Reads proX1 and IK2 proximity ID cards.

Article to be discontinued by 30.09.2006

114,0

114,0

17,5

40,0

57,5

Dimensional drawing
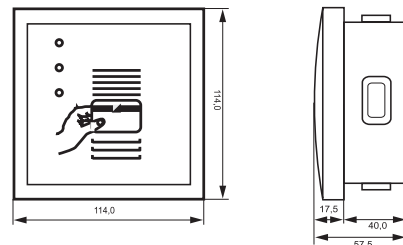
▶ **Legic reader, Oris design**

026485 |||||||||||||| **"Oris" Legic reader**
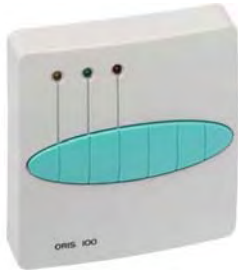
Clock/Data interface, reading distance 3-5 cm.

Article to be discontinued by 30.09.2006

Abmessungen (in mm):
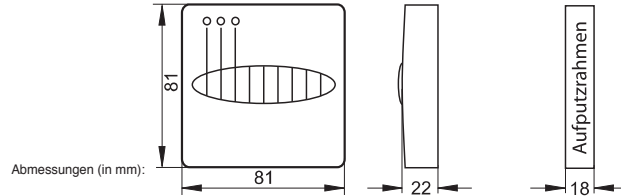
Dimensional drawing

Accessories
026486   Surface mounting frame for Legic and mifare readers

▶ **Plug-in proximity reader**

Single mounting frame, plug-in flush-mounted box and any spacers that may be necessary are included in the delivery.

027579 |||||||||||||| **Plug-in Legic reader**

RS 485 and Clock/Data interfaces

Article to be discontinued by 30.09.2006
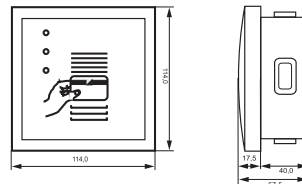
Dimensional drawing

▶ **mifare reader, Oris design**

026484 |||||||||||||| **"Oris" mifare reader**
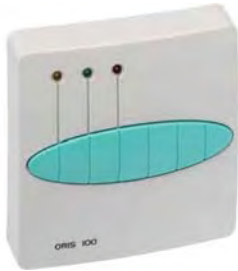
Clock/Data interface, reading distance 3-5 cm.

Article to be discontinued by 30.09.2006

Dimensional drawing   Abmessungen (in mm):

81   81   22   Aufputzrahmen   18
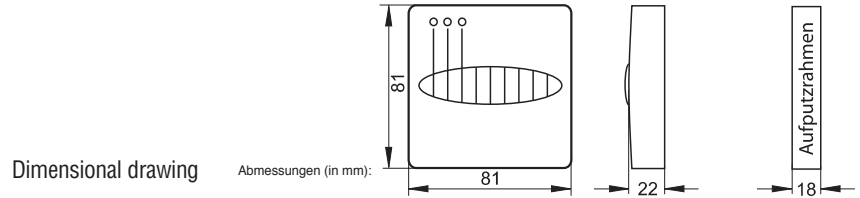
Accessories
026486   Surface mounting frame for Legic and mifare readers

▶ **Plug-in mifare reader**

027577 |||||||||||||| **Plug-in mifare reader**

RS 485 and Clock/Data interfaces

Article to be discontinued by 30.09.2006

Dimensional drawing

114,0   114,0   17,5   40,0   57,5
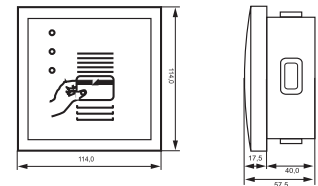
▶ **Chip card readers**

027740 |||||||||||||| **Chip card reader, surface-mounted, "Softline"**

Clock/Data interface for ACU, ACT and ACS-1, ACS-2 plus, ACS-8.

Article to be discontinued by 30.09.2006

Dimensional drawing

129,9   95,8   95,2
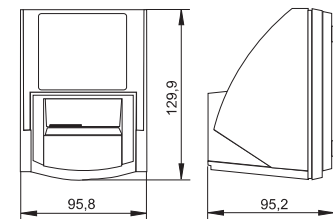
027741 |||||||||||||| **Chip card reader, surface-mounted, with keypad, "Softline"**

Clock/Data interface (reader), 2-wire interface (keypad), for ACU, ACT and ACS-1, ACS-2 plus, ACS-8.

Article to be discontinued by 30.09.2006

Dimensional drawing

129,9   95,8   95,2
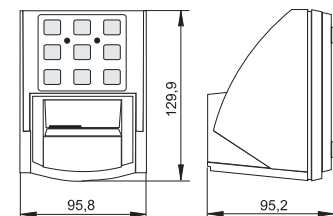
▶ **Code keypad unit**

027570   ‖‖‖‖‖ ‖‖ ‖ ‖‖‖‖   **"Plug-in" keypad in plastic housing**

RS 485 interface
(also in connection with slot readers 027575, 027579, 027577).

Article to be discontinued by 30.09.2006
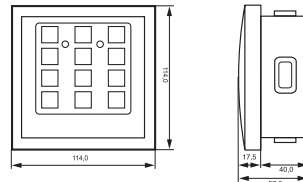
Dimensional drawing

027570.20   ‖‖‖‖‖ ‖‖ ‖ ‖‖‖‖‖‖‖‖‖‖   **"Plug-in" keypad in plastic housing**

2-wire interface
(also in connection with slot readers 027575, 027579, 027577).
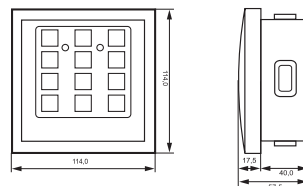
Article to be discontinued by 30.09.2006

Dimensional drawing

▶ **Accessories**

027560　　　▌▌▎▌▎▐▌▌▎▌▐▌　　　**Single mounting frame, "Plug-in"**

Technical Data

| Dimensions (W x H x D) | 114 x 114 x 13 mm |

Article to be discontinued by 30.09.2006

027565　　　▌▌▌▎▌▎▎▌▎▌▐▌　　　**Horizontal dual mounting frame, "Plug-in"**

Technical Data

| Dimensions (W x H x D) | 220 x 114 x 13 mm |

Article to be discontinued by 30.09.2006

027566　　　▌▌▌▎▌▎▎▌▐▌▌　　　**Vertical dual mounting frame, "Plug-in"**

Technical Data

| Dimensions (W x H x D) | 114 x 220 x 13 mm |

Article to be discontinued by 30.09.2006

027597　　　▌▌▌▎▐▌▎▌▌▐▌　　　**Plug-in flush-mounted box**

Technical Data

| Dimensions (W x H x D) | 110 x 110 x 40 mm |

Article to be discontinued by 30.09.2006

Plug in-Leser oder Plug in-Tastatur　　　　　　Plug in-Unterputzdose

Art.Nr.: 027598　027598　027598　027597
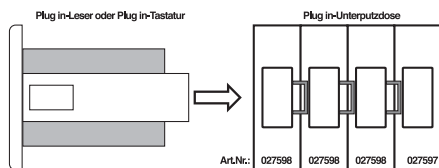
Functional drawing

027598 ||||||||||||||| **Spacer for plug-in flush-mounted box**

Technical Data	
Dimensions (W x H x D)	110 x 110 x 32 mm

Article to be discontinued by 30.09.2006

027599 ||||||||||||||| **Plug-in locking mechanism**

Made of metal, including two keys

Article to be discontinued by 30.09.2006

026486 ||||||||||||||| **"Oris" surface mounting frame for Legic and mifare readers**

Suitable for 026484 and 026485.

Article to be discontinued by 30.09.2006

027708 ||||||||||||||| **"Softline" glazed Plexiglas weather protective cover**

For Softline 0277xx surface-mounted card reader

Fax Original for copying

Order

Customer Number (please always include when ordering or inquiring!)

....

Order no.

....

Commission

....

Offer No.:

....

Ordered by

....

Delivery date

Customer

Postcode / City

Delivery address, if different from above

Postcode / City

Quantity	Article no.	Article designation	Price

To be filled in by Novar GmbH:
AB no.

....

Date/Signature

Honeywell 159

Repair Order Form
Product line ID/AC/T&A/RRT

Fax Original for copying

Honeywell Security Deutschland
Novar GmbH
Reparaturabteilung
Johannes-Mauthe-Straße 14
D-72458 Albstadt

Mon-Thu 7.30 am to 4.30 pm
Fri   7.30 am to 2.30 pm

Manager Repairs:
Otto Trenker   +49 (0) 7431/ 801-1424

Processing Repairs/Returns:
Jörg Schmid   +49 (0) 7431/ 801-1879
Frank Jenter   +49 (0) 7431/ 801-1877
Fax   +49 (0) 7431/ 801-1466

☐ **Repair order**
☐ **Return for replacement component**
☐ **Application for warranty settlement**

Please check type of order.
For warranty orders, please enclose a
copy of the delivery note.

Customer

Surname, First name	Customer No.:
Company	Offer/Order No.
Street House number	Commission
Postcode / City	Date of delivery calendar week
Telephone	Method of delivery
Fax	Date
Delivery address	Signature

Quantity	Article no.	Article designation

Fault Description

☐ **Overvoltage damage**
☐ **Constant error**
☐ **Periodic error**
☐ **Thermal problem**
☐ **Power supply**

☐ **Other**

☐ **Transmission error**
☐ **Drive**
☐ **Language synthesis**
☐ **Mechanics**
☐ **For inspection**

The general sales and delivery conditions of the Novar GmbH shall apply

Order Forms
MultiAccess Lite / IQ MultiAccess

Fax Original for copying

End customer data: (must be filled in)

Name:

Street:

Postcode / City / Country:

Object:

Licence number: (for updates or function extensions)

End customer service employee: (must be filled in)

Name:

Street:

Postcode / City / Country:

Contact person:

Optional entries: (max. 12 characters)

Telephone:

Fax:

E-mail: (max. 45 characters)

1. **Ordering information MultiAccess Lite (check one option only)**

Article No.	Designation
○ 027009	MultiAccess Lite demo version
○ 027010	MultiAccess Lite, latest version for up to 800 persons
○ 027011	MultiAccess Lite, upgrade of EnterpriseAccess 2000

2. **Ordering information IQ MultiAccess**

2.1 Demo version

Article No.	Designation
○ 029600	IQ MultiAccess demo version

2.2 Ordering information IQ MultiAccess (check one option only)

Article no. **Standard package**	Article no. **Professional package**	Number of licences
○ 029601	○ 029631	up to 300 persons
○ 029602	○ 029632	up to 500 persons
○ 029603	○ 029633	up to 800 persons
○ 029604	○ 029634	up to 1000 persons
○ 029605	○ 029635	up to 1500 persons
○ 029606	○ 029636	up to 2000 persons
○ 029607	○ 029637	up to 3000 persons
○ 029608	○ 029638	up to 5000 persons
○ 029609	○ 029639	up to 7500 persons
○ 029610	○ 029640	up to 10,000 persons
○ 029646	○ 029647	more than 10,000 persons

2.3 Licence extensions IQ MultiAccess, standard and professional version (check one option only)

Article no.	Licence extensions
○ 029611	From 300 to 500 persons
○ 029612	From 500 to 800 persons
○ 029613	From 800 to 1000 persons
○ 029614	From 1000 to 1500 persons
○ 029615	From 1500 to 2000 persons
○ 029616	From 2000 to 3000 persons
○ 029617	From 3000 to 5000 persons
○ 029618	From 5000 to 7500 persons
○ 029619	From 7500 to 10,000 persons
○ 029620	From 10,000 to an unlimited number of persons

2.4 Order options for standard and professional version

Article No.	Designation
○ 029621	Database partioning (multi-tennant ability / location ability)
○ 029622	Antipassback control (global and local / from V2)
○ 029624	Guard module including image comparison and image storage (from V3)
○ 029626	Intruder alarm panel MB 100.10 integration (from V3)

2.5 Upgrades for standard and professional version (check one option only)

Article No.	Designation
○ 029641	MultiAccess for Windows to IQ MultiAccess for the same or next higher number of persons
○ 029642	MultiAccess Lite to IQ MultiAccess for 800 persons
○ 029643	EnterpriseAccess 2000 to IQ MultiAccess for 300 persons
○ 029644	NovaTime AC to IQ MultiAccess for the same or next higher number of persons
○ 029645	IQ MultiAccess version 1 or version 2 to IQ MultiAccess version 3

For any queries, please contact your local sales representative.

Order Forms
WINMAG / WINMAG Lite Part 1

Fax Original
for copying

1. Licensing data

To register this data, please complete the form below.

End customer data: (must be filled in: 8 characters min., 45 max.)	Example:
Name:	Novar GmbH
Street:	52, Tickford Street
Postcode/City/Country:	GBMK169 Newport Pagnell
Object:	Security Control Centre

Installer data: (must be filled in: 3 characters min., 45 max.)	Example:
Name:	Dave Doorstrike
Street:	24, Bletcham Way
Postcode/City/Country:	GBMK11 Milton Keynes
Contact person:	Dave Doorstrike
Optional entries: (12 characters max.)	
Telephone:	+44 1908 640404
Fax:	+44 1908 640405
E-mail: (45 characters max.)	D_D@DD.com

2. Order type

One of the order types listed below must be selected.

2.1 WINMAG monitoring software standard package (check additional options on page 2)

- ○ **1 x 013600 Winmag standard package**
- ○ **1 x 013635 Winmag Lite**
- ○ **1 x 013590 Gateway software**

2.2 WINMAG later option extension (check options on page 2)

- ○ **1 x 013609 later option extension from V6.0**

2.3 WINMAG Upgrade

- ○ **1 x 013620 Upgrade of a GEMAG installation (MS-DOS) to WINMAG**

or

- ○ **1 x 013622 Upgrade of a WINMAG installation less than V6.0**
  - ○ **for USB interface**
  - ○ **for parallel interface**
  - ○ **Entering the licence number is mandatory.**

    Licence number:

- ○ **1 x 013636 WINMAG Lite upgrade to WINMAG full version**

  Licence number:

Honeywell   **163**

Order form WINMAG - Part 2

3. Options (for each computer to be connected a standard licence is required)

Article No. Description	Multistation / Distributed PCs					
	Computer design.	Computer design.	Computer design.	Computer design.	Computer design.	Computer design.
013630 Standard licence (parallel interface[1])						
013631 Standard licence (USB interface[1])						
013601 Intrusion detection licence						
013602 Fire detection licence						
013603 Access control licence						
013604 Video licence						
013605 Escape route licence						
013611 OPC Server licence						
013612 OPC Client licence						
013627 BACnet Server licence						
013613 Notification licence						
013650 Escalation licence						
013651 DTMF control option licence						
013652 Client processing ability licence						
013660 WEBX licence						
013606 Connection Server						
013608 WINMAG Remote Data Transmission licence						
013625 WINMAG Client licence[2]						
Updatenumber (for WINMAG-Update less than V6)						

[1] Exactly one of the two article numbers must be ordered

[2] Number of PCs to which network data are transmitted

[3] The update number can be see in the Info dialog window or, from version 8, from the Lizenzinfo.txt text file

Services

Customer Service Centre Application Technology

To assist you in troubleshooting and repair, our service team can be contacted daily during the following office hours:

Mon - Thu	7:30 am to 5:00 pm
Fri	7:30 am to 3:00 pm

This service is free of charge. When you use this service, please give your customer number.

Attention! No commissioning of systems any longer possible over the telephone.

For the Security product line, our service team can be reached at the following collective call number:

for intrusion detection systems	+49 (0) 7431 / 801-1820
for access control	+49 (0) 7431 / 801-1830
for fire detection systems	+49 (0) 7431 / 801-1810
for time recording	+49 (0) 7431 / 801-1840
for WINMAG	+49 (0) 7431 / 801-1850
and for escape route technology	+49 (0) 7431 / 801-1860

Packaging/Shipping

Packaging and shipping costs are charged depending on the value of the goods. The larger the value of goods of an order, the lower the packaging and shipping costs.

Standard shipping fees

0.00 € to 1000.00 €	Shipping fee 3.0%
1001.00 € to 2500.00 €	Shipping fee 1.5%
2501.00 € to 5000.00 €	Shipping fee 0.5%
5001.00 € and more	free of charge to address of buyer

Partial deliveries are charged according to the value of goods, relative to the entire order.

Important shipping information

• The goods will always be shipped by the shipping type that is cheapest to us.
• Special express shipping types (such as UPS Express) will only be used at the special request of the customer. These special shipping costs at the cheapest house fee must be paid for by the customer (recipient).

Novar GmbH warranty

• The warranty period is 24 months from the date of delivery.
• Any claim under warranty must be proven by the customers by means of an invoice copy or the delivery note.
• The test or inspection stickers attached to the units or components are the basis of the claim under warranty. If they have been removed, any claims under warranty become void.
• Warranty is given for damage and defects in components which can be proven to have been caused by manufacturing errors.
• Please, send the defective parts along with the invoice copy or the delivery note and a description of the defect to our repair/return department (the address can be found under Processing of Repairs and Replacement Components).
• For components available as replacement components, a previous delivery of a replacement component is also possible as part of the warranty settlement.
• For components that cannot be repaired, for example those that have been damaged mechanically or by excess voltage, no replacement is possible under warranty. After consultation with the customer, they will be sent back or disposed of free of charge.
• For all other cases, our sales and delivery conditions shall apply.

Return of units

Units can be returned within the first 6 months from the date of delivery. We shall take back only goods in their original packaging. When returning goods, please always enclose the delivery note or an invoice copy.
We shall charge 15% of the purchase price.

Training offers

For assistance and further education, we offer an extensive training program.
Training will usually take place at decentralised sites near you.
In our training program, you will find information on the training contents, dates, training sites, prices and the organisational sequence.
The course fees also include daily meals. Travel expenses and, if required, costs for overnight stays must be paid by the training participant.

The current training program and any further information is available from Mrs. Blickle,
Telephone +49 (0) 7431/801-1331 or Mrs. Ortner, Telephone +49 (0) 7031/637-784 or as a download from the Internet.

Support services

Order service for sales documentation

We have available a wide range of sales-supporting documentation.
Especially for promoting sales, the following documents are available: Brochures, price lists, product catalogues and planning documentation.
You can contact the order service in Albstadt at +49 (0) 74 31/ 801-14 14 (telephone) and +49 (0) 74 31/ 801-14 62 (fax).

Honeywell Security Deutschland on the Internet

Always up-to-date - Available 24 hours a day - around the world. The product catalogue is available for download at the service area
as a pdf file.
 www.honywell.com/security/de
eMail: docucenter@novar.com

CD-ROM service

CD-ROM containing LV texts and gross prices in the formats Word, Excel, DATANORM 4 and 5/ES2000, ASCII/dBASE.
If you want to know more, just give us a ring!

DOCU CD-ROM

Here you will find circuit diagrams and installer instructions for many "old products" from the intrusion and fire detection technologies.
Article No. 054670, 58.29 €. To order, contact our sales department.

Validity

• With the publication of this product catalogue, all former prices will become void as of 1 March 2006.
• All prices given are gross prices.
• All sales are subject to our sales and delivery conditions.
• Subject to modifications and errors.

Access Control Technology at a Glance

Control unit   Connection to access control software possible

	MultiAccess Lite	MultiAccess for Windows	IQ MultiAccess
ACT	•		•
ACS-1		•	•
ACS-2plus	•	• (from V6.1)	•
ACS-8		• (from V5)	•

Access Control Software and Its Performance Features

	Number of persons	Number of doors	Antipass back	Network-able	Remote Data Transmission control
MultiAccessLite	800	32			
MultiAccess for Windows ACS-1/ACS 2plus/8 mixed	9992	512	•	•	•
MultiAccess for Windows ACS 2plus/8	65.000	999	•	•	•
IQ MultiAccess	unlimited	unlimited	•	•	•

Cable lengths/Types

Unit	max. line length	Cable type(s)	
Reader	40m	J-Y(St)Y with motor and/or keypad	4x2x0.6Ø 6x2x0.8Ø
"Legic"/"mifare" reader	10m	J-Y(St)Y	6x2x0.6Ø
Keypad unit	40m	J-Y(St)Y	2x2x0.6Ø
Door strike with monitoring contact	40m	J-Y(St)Y	2x2x0.6Ø
Door strike key	40m	YV(St)Y J-Y(St)Y	2x0.5Ø or 2x2x0.6Ø
Data cable RS 485 3-wire	1,200m	Cat. 5e or higher	4x2xAWG 2...
Data cable RS 485 5-wire	1,200m	Cat. 5e or higher	4x2xAWG 2...
Data cable RS 232	15m	LifYCY	5x2x0.2mm²
Current Loop data cable	2,000m	LifYCY	2x2x0.2mm²
Power supply 230V AC	NYM	3x1.5mm²	

If old and new RS 485 interfaces are operated in combination, the restrictions must be observed:

Overview:

Type A (new) Art. No.	Type B (old) Art. No.	
026 692	026 840.01	3-wire interface without potential separation
026 693	026 840.02	3-wire interface with potential separation
026 692	026 840.08	5-wire interface without potential separation
026 693	026 840.09	5-wire interface with potential separation
026 817.03	026 817.02	RS 232 / RS 485 interface converter

It is recommended using only interfaces of the same type (type A or type B) in a bus system.
If a mixed operation is inevitable, please observe the following points:

1. The terminating interfaces must always be of the same type.

2. If the terminating interfaces are of type A, a mixed operation is allowed.

3. If the terminating interfaces are of type B, a mixed operation is not allowed.

Example: Terminating interfaces = type A: mixed operation allowed.

Type A	Type A	Type B	Type A	Type B	Type A
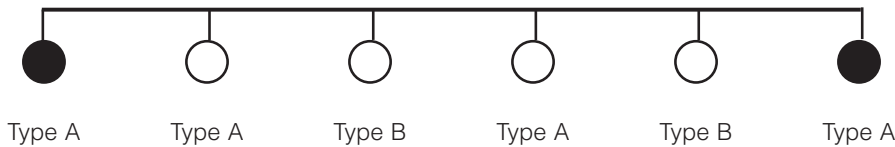
Terminating interfaces = type B: mixed operation not allowed! Only type B possible.

Type B	Type A	Type B	Type A	Type B	Type B
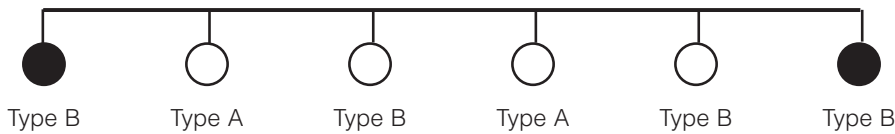
Information regarding the Technical Data

Please note: The technical data given (such as the current and voltage values) are in general typical values. Maximum or minimum allowed limits have been labelled.
For all other technical data, please refer to the enclosed product documentation.

► Software

| | MultiAccess | MultiAccess for Windows | | | | IQ MultiAccess | |
Version No.	Lite	V05	V06	V06 SP1	V07 SP1	IQ V02	IQ V03
System size							
Number of persons standard version	800	200	200	200	200	300	300
max. number of persons	800	65,500 for pure ACS-2/8 operation, otherwise 9992				unlimited	unlimited
max. number of departments	0	999	999	999	999	unlimited	unlimited
max. number of doors	32	999	999	999	999	999/location	999/location
max. number of area/time zones	80	512	512	512	512	512/location	512/location
max. number of inputs/outputs	0	999	999	999	999	999/location	999/location
max. number of holiday calendars	1	64	64	64	64	1/location	1/location
max. number of locations	1	1	1	1	1	(unlimited)	(unlimited)
max. entries in logfile	1 mio.	1 mio.	1 mio.	1 mio.	1 mio.	10 mio.	10 mio.
max. number of workstatins (clients)	1	64	64	64	64	unlimited	unlimited
max. number of remote sites via remote data transmission	0	100	100	100	100	100	100
Operating system							
Windows NT 4.0	x	x	x	x	x	–	–
Windows 2000 / XP	x	x	x	x	x	x	x
Windows 2003 Server	–	–	–	–	–	x	x
Windows Advanced Server	–	–	–	–	–	x	x
Linux	–	–	–	–	–	Server	Server
Database system							
Microsoft Access	x	x	x	x	x	–	–
Microsoft MSDE / SQL 2000	–	–	–	–	–	x	x
Interbase / Firebird	–	–	–	–	–	x	x
IBM DB2	–	–	–	–	–	x	x
Oracle	–	–	–	–	–	–	x
Database partioning	–	–	–	–	–	(x)	(x)
Installation							
Inst. download on client via browser	–	–	–	–	–	–	x
Auto update from server (sw distribution)	–	–	–	–	–	–	x
Autoconfiguration Ethernet card	–	–	–	–	–	–	x
Deinstallation	x	x	x	x	x	x	x
Security							
max. number of passwords	10	999	999	999	999	unlimited	unlimited
Blocking time after how many failed attempts	–	x	x	x	x	–	x
Internal data encrypting	–	–	–	–	–	3DES	3DES
Logfile of all system programmings	–	x	x	x	x	–	x
Database backup via time order	–	x	x	x	x	x	x
Supported interfaces							
COM 1-16 (RS-232)	x	x	x	x	x	x	x
RS-485	x	x	x	x	x	x	x
Ethernet (TCP/IP)	x	x	x	x	x	x	x
Supported network components							
External bus controller	–	x	x	x	x	x	x
Internal bus controller	–	–	x	x	x	x	x
Interface converter	x	x	x	x	x	x	x
Interface multiplier	x	x	x	x	x	x	x
Analog remote data transmission	–	x	x	x	x	x	x
ISDN remote data transmission	–	x	x	x	x	x	x

Version Nos.	MultiAccess Lite	MultiAccess for Windows				IQ MultiAccess	
		V05	V06	V06 SP1	V07 SP1	IQ V02	IQ V03
Supported hardware							
ACT	x	–	–	–	–	x	x
ACS-1	–	–	x	x	x	x	x
ACS-2	–	–	–	x	x	x	x
ACS-2plus	x	–	–	x	x	x	x
ACS-8	–	x	x	x	x	x	x
TRS-8, TRS-15, TRS-35	–	–	–	–	–	x	x
TRS-3000	–	–	–	–	–	–	x
MB-100.10	–	–	–	–	–	–	(x)
Status inquiry of the terminal	x	x	x	x	x	x	x
Reader							
proX1 contactless ("Esser reader")	x	x	x	x	x	x	x
proX1 card slot reader with motor	–	–	–	–	–	–	x
proX2 contactless with autom. address.	–	–	–	–	–	–	x
Legic	x	x	x	x	x	x	x
Legic card slot reader with motor	–	–	–	–	–	–	x
mifare	x	x	x	x	x	x	x
Magnetic slot card reader	x	x	x	x	x	x	x
Magn. swipe, slot reader w/ drop function	–	x	x	x	x	x	x
Chip	x	x	x	x	x	x	x
Keypad							
Keypad 2-wire (analog)	x	x	x	x	x	x	x
Keypad Clk/Data	–	–	–	–	–	x	x
PIN code	x	x	x	x	x	x	x
Door code	x	x	x	x	x	x	x
Hold-up code	x	x	x	x	x	x	x
Input/Output controls							
Output	–					x	x
Input	–		Max. 9999 definitions			x	x
Mixed	–					x	x
Activation of output groups		–	x	x	x	–	–
Flexible macro controls	–	–	x	x	x	x	x
High-speed macros	–	–	–	–	x	x	x
Area controls							
Room balancing (entry/exit counter)	–	x	x	x	x	–	x
Time presence monitoring	–	x	x	x	x	–	x
Barring of repeated entry	–	x	x	x	x	x	x
Entry/Exit counter door-based	–	x	x	x	x	x	x
Entry/Exit counter area-based	–	–	–	–	–	x	x
Two-person access (2-men-rule)	–	x	x	x	x	–	x
Antipassback control	–	x	x	x	x	x	x
Global antipassback control	–	–	–	–	–	x	x
Man-trap control	–	–	Macros	Macros	Macros	Macros	x
Area panel controls	–	x	x	x	x	–	–
Flexible room/time zone control	–	–	–	–	x	–	(V4)
Guard functions							
Virtual panel	–	x	x	x	x	–	–
Image comparison via IP camera	–	x	x	x	x	–	(x)
Storage of image sequences	–	–	–	–	–	–	(x)
Process visualisation	–	x	x	x	x	(x)	(x)

Software

Version Nos.	MultiAccess Lite	MultiAccess for Windows				IQ MultiAccess	
		V05	V06	V06 SP1	V07 SP1	IQ V02	IQ V03
Attendance time calculation	–	x	x	x	x	–	x
Badge management (vps)							
Image acquisition	–	(x)	(x)	(x)	(x)	(x)	(x)
Signature capture	–	–	–	–	–	–	(x)
Badge design	–	(x)	(x)	(x)	(x)	(x)	(x)
Badge printing	–	(x)	(x)	(x)	(x)	(x)	(x)
Badge coding	–	–	–	–	–	–	(x)
Notification							
Fax, SMS, E-mail, Voice (Tobit David)	–	(x)	(x)	(x)	(x)	(x)	(x)
with Sound output	–	x	x	x	x	x	x
Master records special features							
Freely definable fields	–	x	x	x	x	x	x
Exact date of badge validity	x	x	x	x	x	x	x
Exact minute of badge validity	–	–	–	–	–	–	x
Integration of external systems							
Winmag	–	x	x	x	x	x	x
WinmagLite	–	x	x	x	x	x	x
Winfem intrusion detection technology	–	–	–	–	–	–	(x)
External EMA control via relays	–	x	x	x	x	x	x
Escape route technology	–	x	x	x	x	x	x
Kemas key deposition	–	–	x	x	x	x	x
Lift control system	–	x	x	x	x	x	x
Revolving door control	–	x	x	x	x	x	x
LobbyWorks Visitor Management	–	–	–	–	–	–	(V3 SP1)
Time management systems	–	–	–	–	–	x	x
Import/Export of ASCII files	–	x	x	x	x	x	x
cycl. import/export of ASCII files	–	x	x	x	x	x	x
Language versions (as of 01.05.2006)							
German	x	x	x	x	x	x	x
English	x	x	x	x	x	x	x
French	iA	x	x	x	x	in progress	in progress
Italian					x	in progress	in progress
Spanish					x	in progress	in progress
Dutch					in progress		
Czech					x	in progress	in progress
Slovakian						in progress	in progress
Rumanian					x		
Polish					in progress		
Serbian						in progress	in progress
Russian						in progress	in progress
Multi-language capability	x	x	x	x	x	x	x

– = no / x = yes / (x) = via additional option at an extra charge

Honeywell 171

▲ Compatibility Matrix

Version No.	ACT	ACS-1 V.06.05	ACS-2 V.04.XX	ACS-2 V.05.XX	ACS-2 plus V.04.XX	ACS-2 plus V.05.XX	ACS-2 plus V.06.XX	ACS-8 V.01.XX	ACS-8 V.02.XX	ACS-8 V.03.XX	ACS-8 V.04.XX	ACS-8 V.05.XX	ACS-8 V.06.XX
Memory													
max. number of persons*	800	800 (9992)	65,500	65,500	65,500	65,500	65,500	65,500	65,500	65,500	65,500	65,500	65,500
max. number of area/time zones*		512	512	512	512	512	512	512	512	512	512	512	512
max. number of bookings*	2200	2000 (7200)	65,500	65,500	65,500	65,500	65,500	65,500	65,500	65,500	65,500	65,500	65,500
Connections													
Door strike direct	1	1	2	2	2	2	2	2	2	2	2	2	4
Door strike via extension	1	2	2	2	2	2	2	8	8	8	8	8	8
Reader direct	1	2	2	2	2	2	2	2	2	2	2	2	2
Reader via comm. module	–	–	–	–	–	–	–	16	16	16	16	16	16
Keypads direct	1	2	2	2	2	2	2	2	2	2	2	2	2
Keypads via comm. module	–	–	–	–	–	–	–	16	16	16	16	16	16
Semiconductor outputs direct	–	0	3	3	3	3	3	3	3	3	3	3	3
Semiconductor outputs via extensionsn	–	8	–	–	–	–	–	64	64	64	64	64	64
Digital inputs direct	–	0	4	4	4	4	4	4	4	4	4	4	4
Digital inputs via extensions	–	8	–	–	–	–	–	64	64	64	64	64	64
Differential detection lines	–	–	8	8	8	8	8	8	8	8	8	8	8
Host interface													
RS-232	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)
RS-485	(x)	(x)	x	x	x	x	(x)	(x)	(x)	(x)	(x)	(x)	(x)
Current Loop	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)
Ethernet	(x)	–	x	x	x	x	(x)	(x)	(x)	(x)	(x)	(x)	(x)
Network													
External bus controller	–	x	x	x	x	x	x	x	x	x	x	x	x
Internal bus controller	–	x	x	x	x	x	x	x	x	x	x	x	x
Interface converter	x	x	x	x	x	x	x	x	x	x	x	x	x
Interface multiplier	x	x	x	x	x	x	x	x	x	x	x	x	x
Analog remote data transmission	–	x	x	x	x	x	x	x	x	x	x	x	x
ISDN remote data transmission	–	x	x	x	x	x	x	x	x	x	x	x	x
Readers / keypads													
proX1 contactless**	x	x	x	x	x	x	x	x	x	x	x	x	x
proX1 card capture (motorized)**	–	–	–	–	–	–	x	–	–	–	–	–	x
Legic	x	x	x	x	x	x	x	x	x	x	x	x	x
mifare/Legic card capture (motorized)	–	–	–	–	–	x	x	–	–	–	–	–	x
mifare	x	x	x	x	x	x	x	–	x	x	x	x	x
Magnetic	x	x	x	x	x	x	x	x	x	x	x	x	x
Chip	x	x	x	x	x	x	x	x	x	x	x	x	x
Keypad 2-wire (analog)	x	x	x	x	x	x	x	–	x	x	x	x	x
Keypad Clk/Data	x	–	–	x	–	x	x	–	–	–	–	x	x
Automatic address assignment	–	–	–	–	–	–	–	–	–	–	–	–	x

** = former "Esser reader

◆ Compatibility Matrix

Version No.	ACT	ACS-1 V.06.05	ACS-2 V.04.XX	ACS-2 V.05.XX	ACS-2 plus V.04.XX	ACS-2 plus V.05.XX	ACS-2 plus V.06.XX	ACS-8 V.01.XX	ACS-8 V.02.XX	ACS-8 V.03.XX	ACS-8 V.04.XX	ACS-8 V.05.XX	ACS-8 V.06.XX
Badge control													
to the exact minute	–	x	x	x	x	x	x	x	x	x	x	x	x
to the exact date	x	x	x	x	x	x	x	x	x	x	x	x	x
Code control													
PIN code, no. of places	1 - 8	4 / 6	1 - 8	1 - 8	1 - 8	1 - 8	1 - 8	1 - 8	1 - 8	1 - 8	1 - 8	1 - 8	1 - 8
Door code, no. of places	–	1 - 8	1 - 8	1 - 8	1 - 8	1 - 8	1 - 8	1 - 8	1 - 8	1 - 8	1 - 8	1 - 8	1 - 8
Hold-up code	–	x	x	x	x	x	x	–	–	x	x	x	x
Special functions													
Barring repeated entry	–	x	–	–	x	x	x	–	–	x	x	x	x
Entry/Exit counter door-based	–	x	–	–	–	–	–	–	–	–	–	–	–
Entry/Exit counter area-based	–	–	–	–	–	x	x	–	–	–	–	x	x
Two-person access (4-eye principle)	–	x	–	–	–	–	x	–	–	–	–	–	x
Antipassback control	–	x	–	–	x	x	x	–	–	x	x	x	x
Image comparison with camera control	–	x	–	–	–	–	x	–	–	–	–	–	x
Flexible macro functions	–	–	x	x	x	x	x	–	x	x	x	x	x
Special controls													
Activation of outputs	–	x	x	x	x	x	x	–	x	x	x	x	x
Activation of output groups	–	x	x	x	x	x	x	–	x	x	x	x	x
Revolving door control	–	x	x	x	x	x	x	x	x	x	x	x	x
Lift control system	–	x	x	x	x	x	x	–	x	x	x	x	x
EMA control via relays	–	x	x	x	x	x	x	–	x	x	x	x	x
Escape route technology control	–	–	x	x	x	x	x	x	x	x	x	x	x
Key deposition control	–	–	–	–	–	–	–	–	–	–	x	x	x
Door interlock control (man-trap)	–	–	–	–	–	–	x	–	–	–	–	–	x
Biometrics													
Face recognition	–	–	–	–	–	–	–	–	–	–	–	–	–
Fingerprint recognition	–	–	–	–	–	–	–	–	–	–	–	–	–
Iris recognition	–	–	–	–	–	–	–	–	–	–	–	–	–
Back of the hand recognition	–	–	–	–	–	–	–	–	–	–	–	–	–

Biometrics:
- Face recognition – e.g. FacePASS 4.1 from ZNVisage
- Fingerprint recognition – e.g. Deister BPM10/12, BPL 10/12
- Iris recognition – e.g. biometric systems IRIS recognition
- Back of the hand recognition – e.g. RTC veinbiometrics

– = no / x = yes / (x) = via additional option for an extra charge *depending on memory extension and for ACS-2/ACS-8 on dynamisation

Honeywell 173

▶ Technical Data Chart

ACD door code • ACD contactless

Item no.	022420.10	022421.10
Power supply	3 AA (1,5 V)	3 AA (1,5 V)
Current consumption in no-load operation	15 µA	15 µA
Power consumption during operation	30 mA	8 mA
Life span of the battery		
(at 50 actuations/day)	12 months	24 months
Operating temperature range	-5°C to 55°C	-5°C to 55°C
Environmental class according to VdS	II	II
Reading range	approx. 7 cm	–
Number of ID cards max.	99	–
Number of pin codes max.	–	4
Permanent release	•	•
Colour	grey-white	grey-white
Dimensions (W x H x D)		
Outside signboard	65 x 289 x 27 mm	65 x 289 x 27 mm
Internal escutcheon	65 x 289 x 12 mm	65 x 289 x 12 mm
Bolt length	55 mm or longer	55 mm or longer
Distance measure	72 or 92 mm	72 or 92 mm
Door leaf thickness	38 -60 mm	38 -60 mm
Follower measure	8 mm	8 mm
VdS Approval No.	Z199706	Z199705

ACC 50 • ACCK 50

Item no.	026389.00	026384.00
Rated operating voltage	12 V DC	12 V DC
Operating voltage range	9.5 V - 15 V DC	9.5 V - 15V DC
Current consumption typically	60 mA	60 mA
Current consumption max.	120 mA	120 mA
Power consumption	1.44 W	1.44 W
Reading distance	12 cm	12 cm
Number of ID cards	99	99
Max. load of the		
potential-free contact	24 V/1A DC	24 V/1A DC
Switching current max.	1A DC	1A DC
Printer interface	RS 232	RS 232
max. cable length of the		
printer interface	15 m	15 m
Type of protection DIN 40050	IP 64	IP 64
Operating temperature range	-25°C to 60°C	-25°C to 60°C
Environmental class according to VdS	III	III
Colour	grey-white	grey-white
Dimensions (W x H x D)	82 x 127 x 14 mm	82 x 127 x 14 mm

• =yes / –= no

Technical Data Chart

Door Code Systems	Compact unit	Control unit
Item no.	025050	025051
Rated operating voltage	230 V AC	230 V AC
Operating voltage range	230 V AC -15% to +10%	230 V AC -15% to +10%
Mains frequency	50 Hz	50 Hz
External current drain	<250 mA	600 mA
Emergency powe supply	no	no
Contact rating of the relays	24 V DC / 1 A	25 V / 2 A
Number of doors	1	1
Number of user codes	4	1
Code input	2 to 6 digits	4 digits
Channel release	1-30 sec.	1-30 sec.
Permanent unlocking	•	–
Permanent unlocking program	–	•
Temporary release program	–	•
Non-authorised code evaluation	–	•
Potential-free door strike relay	•	•
Potential-free unauthorised code relay	–	•
Door open monitoring	–	–
Central keypad	–	–
Interlock function	–	–
External keypad connectable	–	•
Operating temperature range	0°C to +40°C	0°C to +40°C
Type of protection DIN 40050	IP 30	IP 40
Die-cast aluminium housing	•	–
Steel sheet housing	–	•
powder-coated	•	•
Colour	grey-white	grey-white
Dimensions (W x H x D)	120 x 156 x 67 mm	230 x 150 x 70 mm

ACT/ACU	ACT	ACT	ACU
Item no.	026100.10	026101.10	026315.10
Rated operating voltage	12 V DC	230 V AC	230 V AC
Operating voltage range	10 - 15 V DC	230 V AC -15% to +10%	230 V AC, -15% to +10%
Mains frequency	–	50 Hz	50 Hz
Output voltage	0.7 V DC < connection volt.	10 - 15 V DC	10 - 15 V DC
Power consumption max.	min. 0.9 VA	10 VA	10 VA
Max. current drain	500 mA	300 mA	300 mA
Device with fuse protection primary	–	100mAT, 250V	100mAT, 250V
Device with fuse protection secondary	1 AT, 250 V	1 AT, 250 V	1 AT, 250 V
Printer interface	–	–	RS 232
Slot for interface	•	•	–
Door strike relay contact load	1 A / 24 V	1 A / 24 V	1 A / 24 V
Alarm relay contact load	1 A / 24 V	1 A / 24 V	1 A / 24 V
Type of protection	IP 30	IP 30	IP 30
Operating temperature range	-10°C to 45°C	-10°C to 45°C	-10°C to 45°C
Colour	grey-white	grey-white	grey-white
Dimensions (W x H x D)	201 x 147 x 51 mm	201 x 147 x 51 mm	201 x 147 x 51 mm
VdS Approval No.	Z100701	Z100702	–

• =yes / −= no

Technical Data Chart

ACS-1

Item no.	026250.00	026250.11	026250.01	026250.12	026250.02
Rated operating voltage	230V AC	12V DC	230V AC	12V DC	230V AC
Operating voltage range	230V AC -15% to +10%	12V to +18V DC	230V AC -15% to +10%	12V to +18V DC	230V AC -15% to 10%
Base board current consumption	110mA	110mA	110mA	110mA	110mA
Stand-Alone capability	•	•	•	•	•
Integrated display	•	•	•	–	–
Integrated keypad	•	•	•	–	–
Integrated slot card reader	•	–	–	–	–
Operating temperature range	-5°C to 55°C	-5°C to 55°C	-5°C to 55°C	-5°C to 55°C	-5°C to 55°C
Environmental class according to VdS	II	II	II	II	II
Plastic housing	•	•	•	•	•
Colour	grey-white	grey-white	grey-white	grey-white	grey-white
Dimensions (W x H x D)	130 x 236 x 152 mm	130 x 236 x 152 mm	130 x 236 x 152 mm	130 x 236 x 152 mm	130 x 236 x 152 mm

ACS-2 plus

Item no.	026547	026548
Rated operating voltage	230V AC	12V DC
Operating voltage range	230V AC -15% to +10%	10V DC to 15V DC
Base board current consumption	150mA	200mA - 400mA
Host connection via RS 485	•	•
Host connection via Ethernet interface	•	•
Operating temperature range	0°C to 45°C	0°C to 45°C
Environmental class according to VdS	II	II
Powder-coated steel sheet housing	•	•
Colour	grey-white	grey-white
Dimensions (W x H x D)	250 x 210 x 100 mm	250 x 210 x 100 mm

ACS-8

Item no.	026580	026585	026575
Rated operating voltage	12V DC	230V AC	12V DC
Operating voltage range	10V to 15V DC	230V AC -15% to +10%	10V to 15V DC
Base board current consumption	150mA	150mA	150mA
Modem connection via RS 232 interface	•	•	•
Host connection via RS 485	•	•	•
Connection via Ethernet interface	•	•	•
Operating temperature range	0°C to 45°C	0°C to 45°C	0°C to 45°C
Environmental class according to VdS	II	II	II
Powder-coated steel sheet housing	•	•	•
Colour	grey-white	grey-white	grey-white
Dimensions (W x H x D)	250 x 210 x 100 mm	350 x 280 x 100 mm	350 x 280 x 100 mm
VdS Approval No.	Z105009	Z105009	Z105009

• = yes / –= no / 1) = after loading the application software

Technical Data Chart

Bus modules	I/O module	Input module	Output module
Item no.	026 592	026 590	026 591
Rated operating voltage	12V DC	12V DC	12V DC
Operating voltage range	9.5 - 15V DC	9 - 15V DC	9.5 - 15V DC
Current consumption typ.	110 mA	110 mA	110 mA
Current consumption max.	230 mA	140 mA	250 mA
RS 485 interface	pot. separated	pot. separated	pot. separated
Relay contact load	2A / 24V	–	1A / 24V
Input voltage	5V to 24V DC, pot. sep.	5V to 24V DC, pot. sep.	–
Type of protection	IP30	IP30	IP30
Operating temperature range	-10°C to 45°C	-10°C to 45°C	-10°C to 45°C
Plastic housing	•	•	•
Colour	grey-white	grey-white	grey-white
Dimensions (W x H x D)	118 x 118 x 30 mm	118 x 118 x 30 mm	118 x 118 x 30 mm

Bus modules	Door module	Door module	Potential separation
Item no.	026 593	026 594	026 595
Rated operating voltage	12V DC	230V AC	12V DC
Operating voltage range	10 - 15V DC	230V AC -15% to +10%	10 - 15V DC
Mains frequency	–	50 Hz - 60 Hz	–
Output voltage	0.7V DC < Connection volt.	12 V DC	–
Current consumption	250 mA	65 mA	90 mA
Device with fuse protection primary	–	160 mAT	–
Device with fuse protection secondary	2 AT	2 AT	–
RS 485 interface	potential-separated	potential-separated	potential-separated
Relay contact load	2A / 24 V	2A / 24 V	–
Input voltage	5V DC	5V DC	–
Type of protection	IP30	IP30	IP30
Operating temperature range	-5°C to 55 °C	-5°C to 55°C	-5°C to 55°C
Environmental class according to VdS	II	II	II
Colour	grey-white	grey-white	grey-white
Dimensions (W x H x D)	250 x 210 x 100 mm	350 x 280 x 100 mm	350 x 280 x 100 mm

• = yes / –= no / 1) = after loading the application software

Card reader: magnetic "Classic Design"

Item no.	026053.00	026054.00	026011.00	026062.00
Rated operating voltage	12V DC	12V DC	12V DC	12V DC
Operating voltage range	10-15V DC	10 -15V DC	10 -15V DC	10 -15V DC
Current consumption typically	50mA	50mA	50mA	600mA
Current consumption max.	90mA	90mA	90mA	1.5A
Surface mounting	•	•	–	–
Flush mounting	–	–	•	•
Motorised card capture	–	–	–	•
Slot card reader	–	–	•	•
Swipe reader	•	•	–	–
Reading procedure	magnetic	magnetic	magnetic	magnetic
Keypad	–	2-wire	–	–
Reader	Clock/Data	Clock/Data	Clock/Data	Clock/Data
Type of protection	IP33	IP33	IP33	IP33
Operating temperature range	-25℃ to +60℃	-25℃ to +60℃	-25℃ to +60℃	-25℃ to +60℃
Colour	grey-white	grey-white	grey-white	grey-white
Dimensions (W x H x D)	152 x 79 x 67 mm	152 x 79 x 67 mm	100 x 100 x 103 mm	122 x 122 x 115.5 mm

• = yes / – = no

Card reader: contactless "Classic-Design"

Item no.	026383.00	026481	026390.00	026390.10	026380.00	026480	026480.10
Rated operating voltage	12V DC	12V DC	12V DC	12V DC	12V DC	12V DC	12V DC
Operating voltage range	9 -15V DC	9 -15V DC	9 -15V DC	9 -15V DC	9 -15V DC	9 -15V DC	9 -15V DC
Current consumption typically	50mA	60mA	50mA	60mA	50mA	50mA	60mA
Current consumption max.	100mA	120mA	100mA	120mA	100mA	100mA	120mA
Surface mounting	•	•	•	•	•	•	•
Reading procedure	proX1	proX1	proX1	proX1	proX1	proX1	proX1
Reader range	12cm	12cm	12cm	12cm	12cm	12cm	12cm
Reader with RS 485 interface	–	•	–	•	–	–	•
Reader with Clock/Data interface	•	•	•	•	–	•	•
Reader with RS 232 interface	-	–	–	–	•	–	–
Keypad	2-wire	Clock/Data	–	–	–	–	–
Keypad with RS 485 interface	-	•	–	–	–	–	–
Type of protection	IP64	IP64	IP67	IP64	IP64	IP67	IP64
Operating temperature range	-25°C to +60°C	-25°C to +60°C	-25°C to +60°C	-25°C to +60°C	-25°C to +60°C	-25°C to +60°C	-25°C to +60°C
Colour	grey-white	grey-white	grey-white	grey-white	grey-white	grey-white	grey-white
Dimensions (W x H x D)	82 x 126 x 15 mm	82 x 126 x 15 mm	82 x 126 x 15 mm	82 x 126 x 15 mm	82 x 90 x 15 mm	82 x 90 x 15 mm	82 x 90 x 15 mm

Item no.	026366.00	026366.10
Rated operating voltage	12V DC	12V DC
Operating voltage range	11 -15V DC	11 -15V DC
Current consumption typically	350mA	350mA
Current consumption max.	450mA	450mA
Surface mounting	•	•
Flush mounting	–	–
Reading procedure	proX1	proX1
Reader range max.	25cm	25cm
Reader with RS 485 interface	–	•
Reader with Clock/Data interface	•	•
Type of protection	IP40	IP40
Operating temperature range	-25°C to +60°C	-25°C to +60°C
Colour	grey-white	grey-white
Dimensions (W x H x D)	196 x 146 x 32 mm	196 x 146 x 32 mm

• = yes / – = no

Honeywell   179

Technical Data Chart

"Classic" smart card reader

Item no.	26491	26492	26493	26494
Rated operating voltage	12 V DC	12 V DC	12 V DC	12 V DC
Operating voltage range	10 - 15 V DC	10 - 15 V DC	10 - 15 V DC	10 - 15 V DC
Current consumption typically	150 mA	150 mA	200 mA	200 mA
Current consumption max.	500 mA	500 mA	230 mA	230 mA
Surface mounting	yes	yes	yes	yes
Flush mounting	-	-	-	-
Reading procedure	Legic	Legic	mifare	mifare
Reader range max.	5 cm	5 cm	5 cm	5 cm
Reader with RS 485 interface	yes	yes	yes	yes
Reader with Clock/Data interface	yes	yes	yes	yes
Keypad with RS-485	yes	-	yes	-
Keypad with Clock/Data interface	yes	-	yes	-
Type of protection	IP64	IP64	IP64	IP64
Operating temperature range	-25 bis +60C	-25 bis +60C	-25 bis +60C	-25 bis +60C
Colour	grey-white	grey-white	grey-white	grey-white
Dimensions	82 x 126 x 15 mm	82 x 90 x 15 mm	82 x 126 x 15 mm	82 x 90 x 15 mm

"Oris" smart card reader

Item no.	026 484	026585
Rated operating voltage	12V DC	12V DC
Operating voltage range	10.8 -13.2V DC	10.8 -13.2V DC
Current consumption typically	–	–
Current consumption max.	500mA	500mA
Surface mounting	•	•
Flush mounting	–	–
Reading procedure	Legic	mifare
Reader range max.	5cm	5cm
Reader with RS 485 interface	–	–
Reader with Clock/Data interface	•	•
Type of protection	IP64	IP64
Operating temperature range	-25℃ to +60℃	-25℃ to +60℃
Colour	grey-white/green	grey-white/green
Dimensions (W x H x D)	81 x 81x 22 mm	81 x 81x 22 mm

• = yes / – = no

Card reader: contactless for "Vario" Siedle system

Item no.	027540	027541	027542	027543
Rated operating voltage	12V DC	12V DC	12V DC	12V DC
Operating voltage range	10 -15V DC	10 -15V DC	10 -15V DC	10 -15V DC
Current consumption typically	50mA	50mA	50mA	50mA
Current consumption max.	100mA	100mA	100mA	100mA
Reader range	12cm	12cm	12cm	12cm
Reader with RS 485 interface	–	–	–	–
Reader with Clock/Data interface	•	•	•	•
Type of protection	IP54	IP54	IP54	IP54
Operating temperature range	-25°C to +60°C	-25°C to +60°C	-25°C to +60°C	-25°C to +60°C
Colour	white	titanium	silver	graphite brown
Dimensions (W x H x D)	100 x 100 x 25 mm	100 x 100 x 25 mm	100 x 100 x 25 mm	100 x 100 x 25 mm

Card reader: "Softline" magnetic and chip card

Item no.	027710	027712	027711	027740	027741
Rated operating voltage	12V DC	12V DC	12V DC	12V DC	12V DC
Operating voltage range	9 -15V DC	9 -15V DC	9 -15V DC	10 -15V DC	10 -15V DC
Current consumption typically	30mA	40mA	30mA	50mA	50mA
Current consumption max.	80mA	500mA	80mA	90mA + current chip card	90mA + current chip card
Surface mounting	•	•	•	•	•
Motorised card capture	–	•	–	–	–
Slot card reader	•	•	•	•	•
Reading procedure	magnetic	magnetic	magnetic	chip	chip
Reader with RS 485 interface	•	•	•	–	–
Reader with Clock/Data interface	•	•	•	•	•
Keypad in 2-wire technology	–	–	•	–	–
Keypad with RS 485 interface	–	–	•	–	–
Type of protection	IP32	IP32	IP32	IP32	IP32
Operating temperature range	-25°C to +60°C	-25°C to +60°C	-25°C to +60°C	-25°C to +60°C	-25°C to +60°C
Colour	grey-white	grey-white	grey-white	grey-white	grey-white
Dimensions (W x H x D)	96 x 130 x 96 mm	96 x 130 x 96 mm	96 x 130 x 96 mm	96 x 130 x 96 mm	96 x 130 x 96 mm

• = yes / – = no

Technical Data Chart

Card reader: "Plug-in"

Item no.	027575	027580	027577	027579
Rated operating voltage	12V DC	12V DC	12V DC	12V DC
Operating voltage range	9 -15V DC	9 -15V DC	10 -15V DC	10 -15V DC
Current consumption typically	60mA	30mA	200mA	150mA
Current consumption max.	120mA	80mA	300mA	200mA
Flush mounting	•	•	•	•
Slot card reader	–	•	–	–
Metal housing	–	–	–	–
Plastic housing	•	•	•	•
Reading procedure	contactless	magnetic	mifare	Legic
Reader range	12cm	Slot card reader	5cm	5cm
Reader with RS 485 interface	•	•	•	•
Reader with Clock/Data interface	•	•	•	•
Type of protection	IP42	IP32	IP42	IP42
Operating temperature range	-25°C to +60°C	-25°C to +60°C	-25°C to +60°C	-25°C to +60°C
Colour	grey-white	grey-white	grey-white	grey-white
Dimensions (W x H x D)	114 x 114 x 53 mm	114 x 114 x 149 mm	114 x 114 x 149 mm	114 x 114 x 149 mm

• = yes / – = no

Card reader: "Accentic"

Item no.	026420	026421
Rated operating voltage	12 V DC	12 V DC
Operating voltage range	9 V to 15 V DC	9 V to 15 V DC
Current consumption in standby mode	<11 mA (on average)	<11 mA (on average)
Time-limited reading mode	<50 mA (incl. status indicators)	<50 mA (incl. status indicators)
	Time-limited run-on time after last transponder approach 5 sec.	
Background illumination	–	connectable (brightness can be set)
		<4 mA (time-limited for 5 sec. up to 8 mA)
Mounting base	any, including metal	any, including metal
Transmission range	adjustable	adjustable

The transmission range depends on the mounting base and the transponders used.

The following data refer to the range when using an ID card.*)

-Non-metallic mounting base	up to about 80 mm with an ID card	up to about 80 mm with an ID card
-Steel as mounting base	up to about 60 mm with an ID card	up to about 60 mm with an ID card
-Aluminium as mounting base	up to about 70 mm with an ID card	up to about 70 mm with an ID card
Interfaces	RS 485 and Clock/Data	RS 485 and Clock/Data
Connecting cable	12-wire shielded, length 6 m	12-wire shielded, length 6 m
Type of protection DIN 40,050	IP 65	IP 65
Operating temperature range	-25°C to +55°C	-25°C to +55°C
Environmental class according to VdS	III	III
Colour	aluminium-white (similar to RAL 9006)	aluminium-white (similar to RAL 9006)
Housing dimensions (W x H x D)	75 x 142 x 32 mm	75 x 142 x 32 mm

*) For other transponder designs, the reading range may be a little less.

• = yes / – = no

Keypads

Item no.	027570	027570.20	026 064	026070.02	026071.02
Rated operating voltage	12V DC	12V DC	12V DC	–	–
Operating voltage range	9 -15V DC	10 -15V DC	9 -15V DC	–	–
Current consumption typically	30mA	5 mA	20mA	–	–
Current consumption max.	50mA	35 mA	50 mA	–	–
Surface mounting	–	–	•	•	•
Plug-in	•	•	–	•*	•*
Keypad	RS -485	2-wire	2-wire	2-wire	2-wire
Type of protection	IP43	IP42	IP65	IP54	IP65
Operating temperature range	-25°C to +60°C	-25°C to +60°C	-25°C to +60°C	-25°C to +60°C	-25°C to +60°C
Colour	grey-white	grey-white	grey-white	grey-white/light-grey	grey-white/light-grey
Dimensions (W x H x D)	114 x 114 x 53 mm	114 x 114 x 53 mm	196 x 146 x 32 mm	165 x 75 x 35 mm	65 x 75 x 35 mm

• = yes / – = no   •* = including accessories 026169

Card reader for bank systems

Item no.	026163.00	026053.00
Rated operating voltage	12V DC	12V DC
Operating voltage range	10 - 15V DC	10 - 15V DC
Current consumption typically	30mA	30mA
Current consumption max.	80mA	80mA
Surface mounting	–	•
Flush mounting	•	–
Slot card reader	•	–
Swipe reader	–	•
Reading procedure	magnetic	magnetic
Clock/Data interface	•	•
Type of protection	IP33	IP33
Operating temperature range	-25°C to +60°C	-25°C to +60°C
Colour	grey-white	grey-white
Dimensions (W x H x D)	122 x 122 x 114.5 mm	152 x 79 x 67 mm

• = yes / – = no

Honeywell   183

Article number index

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

Honeywell

Honeywell Security Germany
Novar GmbH
General Terms of Sale and Delivery
As per April 2005

I.

1. Scope

1.1 The following General Terms of Sale and Delivery apply for all goods and services of the Seller.

1.2 Conditions of the Purchaser that deviate from these are not binding for the Seller. They are valid only with the explicit written approval of the Seller. The Terms of Sale also apply when the goods are provided unreservedly to the customer in the knowlege that there are conditions of the Purchaser that oppose or deviate from these Terms of Sale.

1.3 The Terms of Sale apply only vis-à-vis companies, legal entities under public law or special assets under public law.

2. Conclusion of Contract

2.1 The offers of the Seller are subject to change until they are accepted by the Purchaser. Information in offers and in attached drawings and illustrations about the goods, their measurements and weights are only approximate unless they are expressly referred to as binding.

2.2 Content and scope of the agreements comply with the Seller's written order confirmation. Verbal sideletters made at the conclusion of the Contract are only binding for the Seller if the Seller explicitly confirms this in writing.

2.3 The Seller reserves the right to make technical changes to construction, form and material, even during the delivery time, providing these changes are acceptable for the Purchaser.

3. Delivery, delivery time, delay

3.1 Unless otherwise stipulated, delivery is ex factory at the cost and risk of the Purchaser. Benefit and risk are transferred to the Purchaser at the latest when the goods leave the factory or warehouse of the Seller. The prices given by the Seller are ex factory and exclude packaging.

3.2 The Seller is entitled to make partial deliveries as long as these are acceptable for the Purchaser. Such partial payments may be invoiced separately.

3.3 The adherence to agreed deadlines or dates for deliveries necessitates the timely receipt of all documents to be provided by the Purchaser, necessary authorisations and approvals, in particular of plans, the provision of all necessary information, as well as the adherence to agreed payment conditions and other obligations by the Purchaser. If these requirements are not fulfilled in a timely manner, the deadlines will be extended appropriately. This does not apply if the Seller is responsible for the delay.

3.4 The Seller may also demand an appropriate extension of the delivery deadline in the event of subsequent changes to the Contract at the request of the Purchaser.

3.5 If the non-adherence to the delivery deadline is attributable to force majeure or other unforeseeable conditions or conditions that neither party is responsible for - e.g. operational disruptions, strike, lock-out, insufficient transportational resources, official intervention, difficulties in material procurement or energy provision, even if they occur with preceding suppliers, the delivery deadline is extended appropriately. If, as the result of the circumstances named, the goods or services become impossible or unacceptable, the Seller is released from his obligation to deliver, even when the circumstances occur during an already existing delay. The Seller will inform the Purchaser of the beginning and end of such hindrances immediately.

3.6 If the Seller is in arrears with delivery, the Purchaser may only withdraw from the Contract and demand compensation for non-fulfilment if the Purchaser gives the Seller an extension period of at least 20 working days and when this period has passed to no avail. The extension period is to be combined with the declaration that the Purchaser may refuse the acceptance of the delivery when the period has passed to no avail. The setting of an extension period under threat of refusal is not necessary if the Seller has seriously and definitively refused the goods previously. If a hindrance to delivery lasts longer than three months or if the delivery becomes impossible due to an event of a type named under Section 3.5, each contractual party is entitled to withdraw from the Contract.

3.7 Claims for compensation on the part of the Purchaser due to delayed deliveries are excluded except in cases of wilful conduct and gross negligence by the legal representatives or vicarious agents of the Seller.

3.8 The Seller reserves the right to determine the form of shipment and shipment route at his own discretion. Packaging and transport will be charged to the Purchaser at the most favourable price that the Seller is able to obtain. If the shipment is delayed at the request of or through the fault of the Purchaser, the goods will be stored at the expense and risk of the Purchaser. In this case, risk is transferred to the Purchaser when readiness for shipment is notified to the Purchaser.

4. Conditions of payment

4.1 A 2% discount will be granted on invoices that are paid within 30 days of the invoice date. The decisive date for adhering to this deadline is the receipt of the invoice amount by the Seller, in other words the value date. A discount will only be given if the Purchaser is not in arrears with the payment of invoices.

4.2 With services that have a delivery time of more than six months from conclusion of the Contract, the Seller reserves the right to agree a special payment plan.

4.3 Cheques and/or bills of exchange will only be accepted for the sake of payment and in accordance with a special written agreement. They are deemed as payment only when they have been cashed. Discount charges and other charges for bill of exchanges as well as costs for collection are for the account of the Purchaser.

4.4 If the Purchaser is in arrears with a payment that is due or if the Seller becomes aware of circumstances after the conclusion of the Contract that are suited to lessening the creditworthiness of the Purchaser and the adherence to his payment obligations, the Seller

may demand advance payment or the provision of securities for deliveries still outstanding and if these are not given within an appropriate period of extension to withdraw from the contract or demand compensation for non-fulfilment.

4.5 The Purchaser may only offfset payment claims of the Seller against undisputed or legally ascertained counter-claims or those that are ready for decision that are based on the same contractual relationship. Offsetting by the Seller is possible without restrictions.

5. Retention of title

5.1 The Seller reserves his ownership, copyright and all utilisation rights to the illustrations, drawings, catalogues, prospectuses and other documents provided by him without reservation. All documents may not be made available to third parties without the express permission of the Seller and are to be returned to the Seller immediately at the Seller's request if the Contract is not awarded.

5.2 The objects of the delivery (goods subject to retention of title) remain the property of the Seller until all claims of the Seller vis-à-vis the Purchaser arising from the contractual relationship including sub-claims and claims for compensation, including those arising from the encashment of cheques and bills of exchange, have been fulfilled.

5.3 In the event that the Purchaser is in arrears with payments or if there is an application to open insolvency proceedings over the Purchaser's assets, or there is a transfer of the contingency right to third parties, or if there is a transfer of the business operations to third parties, the Seller is entitled to take back the goods that are subject to reservation of title and for this purpose to enter the business premises of the Purchaser. Taking back goods that are subject to retention of title by the Seller does not mean that the Seller is withdrawing from the Contract unless the Seller expressly declares this in writing. The Purchaser is obliged to hand over the goods. When the Seller has taken back the goods that are subject to reservation of title, the Seller is authorised to make free use of them. The proceeds from the utilisation are to be offset against the liability of the Purchaser minus appropriate utilisation costs.

5.4 Any processing or modification of the goods that are subject to retention of title and their combination with other objects shall be done by the Purchaser for the Seller. If the goods that are subject to retention of title are combined with other goods that are owned by third parties during this processing or modification, the Seller acquires co-ownership of the new object in the ratio of the purchasing prices agreed between the parties to the corresponding purchasing price for the other goods. If the goods that are subject to retention of title are combined with real estate or movable goods by the Purchaser, the Purchaser also cedes to the Seller his claim for remuneration for the combination, with all ancillary rights as security amounting to the ratio of the value of the combined goods subject to retention of title to the remaining combined goods at the time of the combination.

5.5 The Purchaser is entitled to resell the goods that are subject to retention of title in a ordinary business transaction. The claims of the Purchaser arising from the resale of the goods subject to retention of title are already ceded at this point to the Seller to the amount of the value of the goods subject to retention of title with all ancillary rights. The Purchaser is entitled to collect the ceded claims as long as he fulfils his payment obligations. If the Purchaser is in arrears with payment, the Seller is entitled to revoke the authorisation for collection. In this case, the Purchaser is obliged at the request of the Seller to provide him with all information necessary for the collection, to permit him to have the portfolio of ceded claims checked by his agent by means of his accounting, and to inform the debtors of the cession of the claim.

5.6 During the existence of the retention of title, the Purchaser is forbidden from pledging or transferring the goods by way of security. The Purchaser is obliged to notify the Seller immediately of pledges, confiscations or other dispositions or interventions by third parties in the goods that are subject to retention of title or claims that have been ceded beforehand. The Purchaser is not permitted to make agreements with his contractual partners, in particular creditors or customers, which may restrict the rights of the Seller from the aforementioned agreed retention of title.

5.7 The Seller is obliged to submit all the legally necessary declarations at the place of destination for the effectiveness of the retention of title and to provide the necessary documents.

5.8 The Seller is obliged to release the securities owing to him through the retention of title at the request of the Purchaser in so far as the realisable value of the claims to be secured exceed 15%. The Purchaser will be informed in writing that the securities have been released. The selection of the security to be released is the responsibility of the Seller.

6. Guarantee claims / guarantee liability

6.1 The Purchaser is to examine the goods received immediately on arrival for defects, condition and guaranteed features. Obvious defects are to be reported to the Seller within 10 working days after receipt of the delivery, hidden defects within 10 working days after discovery through written notification. Otherwise, the delivery is deemed approved.

6.2 At the request of the Seller, the Purchase will send back the disputed goods to the Seller free of freight charges. If the defect proves to be justified in such a case, the Seller shall bear the costs of returning the goods by means that incur the lowest possible freight costs.

6.3 The Purchaser is to give the Seller sufficient opportunity to verify the complaint, in particular to provide damaged goods and their packaging to the Seller for inspection. If the Purchaser refuses to do this, the Seller is freed of any liability for defects. If it is urgently necessary in cases where operational security is under threat or to avert unproportionally great damage, the Purchaser is entitled to correct the defect himself or have this done by third parties and to demand from the Seller compensation for the costs required. The same applies in the event that the Seller is in arrears with the correction of the defect. In any case, the Seller is to be notified immediately by the Purchaser.

6.4 The Seller is not liable as the result of public statements in his advertising or the advertising of another manufacturer of the supplied goods or the agents thereof, if and in so far as the Purchaser cannot prove that the advertising statements have influenced his purchasing decision, if the Seller did not not know the statements and did not have to know them or the statements had been already been corrected at the time of the purchasing decision.

6.5 If there is a defect in a device that is not older than four weeks and if this defect is notified within the first four weeks after delivery, a new device will be supplied. Furthermore, the Seller's guarantee is restricted to improving free of charge at his own discretion or replacing with new parts (replacement delivery) all parts that are proven to have become unusable or were restricted significantly in their usability as the result of a circumstance before the transfer of risk as the result of defective construction, material feature or design within one year of the delivery date. If there is a defect in the software, the guarantee is restricted to remedying the defect. If the rectification of the defect is unsuccessful, the Purchaser has the right to withdraw from the Contract. The replaced goods are to be sent back to the Seller within a period of 4 weeks. The Purchaser is to grant the Seller a reasonable period to rectify the defect or deliver a replacement. If the Purchaser refuses to do this, the Seller is freed of any liability for defects. If a rectification of the defect or a replacement delivery is not possible or if this takes longer than a reasonable period of time or is unsuccessful due to other reasons for which the Seller is responsible, the Purchaser may at his discretion either withdraw from the Contract or reduce the purchase price. If the complaint by the Purchaser is justified, the costs that exceed the costs of the replacement part including shipment and the reasonable costs of removing and installing the part, are to be borne by the Purchaser himself. The Seller does not provide any guarantee for damage or defects in the goods that arise from normal wear and tear, defective or careless handling or assembly, excessive use or improper modification or subsequent correction by the Purchaser or a third party. Furthermore, no guarantee will be assumed for damage to the device as a result of lightning, fire, water, smoke, defects due to contamination of detectors or defects due to maintenance not being carried out. Increased expense for post-fulfilment arising from the fact that goods supplied that are moved after delivery to a place other than the Purchaser's subsidiary will be borne by the Purchaser.

6.6 Claims of the Purchaser, that exceed the above, in particular for compensation instead of service and replacement or another direct or indirect damage are excuded. This does not apply if a legal or material defect has been maliciously concealed or if a durability guarantee has been assumed, if the representatives or vicarious agents of the Seller are guilty of wilful conduct or gross negligence, if there is liability in accordance with the Product Liability Act, if the defect or damage is based on a breach of guarantee or if the Seller is liable due to a breach of a major contractual obligation.

6.7 The Seller grants a durability guarantee of 24 months from delivery of the goods to the Purchaser. This claim lapses if it is not notified to the Seller at the latest 10 working days after discovery of the defect. A guarantee liability for software defects is excluded. The guarantee from delivery of spare parts to the Purchaser is limited to 12 months.

6.8 All defect claims of the Purchaser expire one year after delivery of the goods to the Purchaser. For replacement parts and improvement, the limitation period is 12 months; however, it runs at least until the expiry of the original limitation period for the object supplied.

7. Taking back goods, unjustified taking back, returns

7.1 The taking back of custom-made products, painted parts or those that cannot be reused is excluded.

7.2 If the Purchaser withdraws from the Contract and is unjustified in doing so, or if the Purchaser refuses to accept the delivery and is unjustified in doing so, the Seller is entitled to demand 15% of the agreed price as compensation for non-fulfilment without particular proof. It is open to the Purchaser to prove that the Seller has suffered no or less damage.

7.3 Returns of goods are only accepted up to 5% of the order value once or only in their original packed and sealed condition within six months after shipment. Custom-made products, however, shall not be taken back. The return of these goods shall be done at the expense and risk of the Purchaser. In the case of accepted returns, the purchase price shall be repaid with a deduction of 15% for processing, testing, administration and other overheads; claims for defects on the part of the Purchaser are unaffected by this No. 7.3.

8. Final provisions

8.1 For all legal relationships between the parties that arise from or in the context of this Contract, the law of the Federal Republic of Germany is exclusively valid. The application of the UN Convention on Contracts for the International Sale of Goods is excluded.

8.2 The respective valid foreign trade provisions of the Federal Republic of Germany and the United States of America, in so far as they are applicable, determine the content of the mutual rights and obligations from the Contract with regard to export, re-export and resale. In any case, a contractual obligation of the Seller only arises when the corresponding authorisations regarding the final destination of the goods have been granted by the responsible authorities. The Purchaser undertakes to provide any information needed for these approvals and to procure the necessary documents for the approval procedure at his own costs.

8.3 The place of fulfilment for all deliveries, services and payments as well as the place of jurisdiction for all legal disputes, including for lawsuits involving cheques and bills of exchange, is the registered office of the Seller, in so far as the Purchaser is a merchant, legal entity under public law or a special asset under public law.

8.4 If a provision of these General Terms of Sale and Delivery should be or become invalid, this does not affect the validity of the remaining provisions.

Additional conditions for the licensing of software

1. Scope

1.1 The subject of the following provisions ("Additional Provisions for the Licensing of Software") is the licensing of computer programs, appropriate user documentation in electronic and printed form (user handbook) and other appropriate written materials, hereinafter referred to overall as "Software". The software may be stored on a device or another separate data storage medium or in a non-physical form.

1.2 As a supplement to these Provisions, the "General Terms of Sale and Delivery" of Novar GmbH apply, even if these are not explicitly referred to.

2. Usage rights

2.1 The Seller grants the Purchaser the following non-exclusive rights for usage of the permanently licensed software. In accordance with No. 6 of these Provisions, these rights are transferrable and not restricted temporally or geographically.

2.1.1 Right to use the software in the manner and to the extent described in the handbook and/or functional description;

2.1.2 Right to copy, process and back-translate the licensed program code into other forms of code (decompilation) of the software.

2.2 There are no time restrictions to the aforementioned rights.

2.3 The aforementioned rights are exclusively for the Purchaser and not for third parties. Third parties in this sense are also associated companies of the Purchaser.

2.4 The duplication right given to the Purchaser in accordance with No 2.1.2 is limited to duplications on the computer systems in his direct possession and to duplications that require the loading, display, running, transfer or storage of the software; this restriction does not apply to the right named in § 69 d Para. 2 Copyright Act (UrhG) for the creation of a back-up copy by a person authorised to use the computer program. The back-up copy of the licensed program is to be labeled as such. Duplication of the handbook or functional description is not permitted.

2.5 The right to process the software that is given to the Purchaser in accordance with No. 2.1.2 is limited to the maintenance or restoration of the contractually agreed functionality of the software.

2.6 The right to decompile the software granted to the Purchaser in accordance with No. 2.1.2 is only granted under the conditions of § 69 e Para. 1 No. 1 - 3 Copyright Act (UrhG) and in the restrictions of § 69 e Para. 2 No. 1 - 3 Copyright Act (UrhG). The interface information required for the purpose of establishing the interoperability of an independently created computer program can be requested from the Seller in return for the reimbursement of a contribution to the costs.

2.7 More extensive rights to use and exploit the software are not granted to the Purchaser.

2.8 The Seller is not obliged to license the source code, including the relevant development documentation.

3. Multi-usage and network use

3.1 The Purchaser may use the software on hardware that is available to him and which is suitable for using the software. However, if the Purchaser changes the hardware, he must delete the software from the mass memory of the hardware used up until that point. Storing or keeping software ready or using it on more than one hardware is not permitted.

3.2 The use of the licensed software within a network or any other multi-station computer system is not permitted, in so far as this would create the possibility of multi-usage of the program at the same time.

4. Decompilation and program changes

4.1 A decompilation that exceeds that described under No. 2 as well as other kinds of back-development of the various manufacturer levels of the software are not permitted.

4.2 As a basic principle, the removal of copy protection or similar protection routines, such as a dongle query routine, is not permitted. Only in so far as the smooth use of the program is hindered or prevented by this protective mechanism and the Seller, despite a corresponding request to solve the problem, has not done so within an appropriate period of time, may the Purchaser remove the copy protection and/or the protective routine. The Purchaser bears the burden of proof for the hindrance or prevention of smooth usability by the protective mechanism.

4.3 Changes other than those regulated in No. 4.2, in particular those for the purpose of correcting other errors or enhancing the functional scope, are only permitted if the changed program is solely within the scope of own use.

4.4 The actions mentioned in No. 4.3 may only be licensed to commercially active third parties that may have a potential competitive relationship with the Seller if the Seller does not want to undertake the desired changes to the program in return for appropriate remuneration. The Seller is to be given an appropriate period of time to check whether he wishes to take on the Contract.

4.5 Copyright notes, serial numbers or other features serving to identify the program may not be removed or changed by the Purchaser.

5. Rights to the software in the event of changes or combination

The Seller remains the owner of all rights to the software, even if the Purchaser changes the software or combines it with his own programs or those of a third party.

6. Permanent transfer and temporary leasing of the software

6.1 The Purchaser may transfer the software that has been permanently licensed to the Seller to third parties permanently if the third party acquiring the software declares its agreement to abide by all of the provisions agreed between the Seller and the Purchaser before the transfer takes place. In the event of the transfer, the Purchaser must hand over all program copies, including back-up copies to the third party acquiring the software and destroy any copies that are not handed over. As a consequence of the transfer, the Purchaser's right to use the software lapses. The Purchaser is to inform the Seller of the transfer, indicating the name and complete address of the party acquiring the software.

6.2 A commercial leasing of the software is not permissible. A gratuitous licensing of the software licensed permanently to the Purchaser is permissible if the third party declares in writing its agreement to abide by all the provisions agreed between the Seller and the Purchaser before the transfer and that all program copies including all back-up copies are handed over to the third party. For the period that the software is licensed to the third party, the Purchaser is not entitled to use the software.

6.3 The software may not be licensed to third parties if there are substantial grounds to believe that the third party may not adhere to all the Provisions agreed between the Seller and the Purchaser.

7. Changes and updates

The Seller is entitled to change and update the software at his own discretion. The licensing of software updates to the Purchase is the subject of a special agreement concerning software maintenance.

8. Special software

Unless otherwise agreed, special software is created on the basis of the current software version. Special software is generally excluded from the maintenance and further development by the Seller.

9. Retention of title

9.1 The software remains the property of the Seller until all claims of the Seller vis-à-vis the Purchaser from the business relationship have been fulfilled. When retention of title has been asserted by the Seller, the Purchaser's right to use the software further lapses. All program copies created by the User must be deleted.

9.2 As a supplement, the provisions of No. 5 of the General Terms of Sale and Delivery apply.

10. Warranty claims

10.1 Within the scope of the material defects warranty, the Seller vouches for the software fulfilling the functions named in the program description, corresponding to the recognised rules of technology and not having any defects that nullify or reduce in more than just an insubstantial way the value or aptitude for the usual purpose or that assumed under this Contract.

10.2 The liability for loss of data is restricted to the typical effort required to restore the data that would have been incurred if back-up copies had been made regularly and appropriate to the risks.
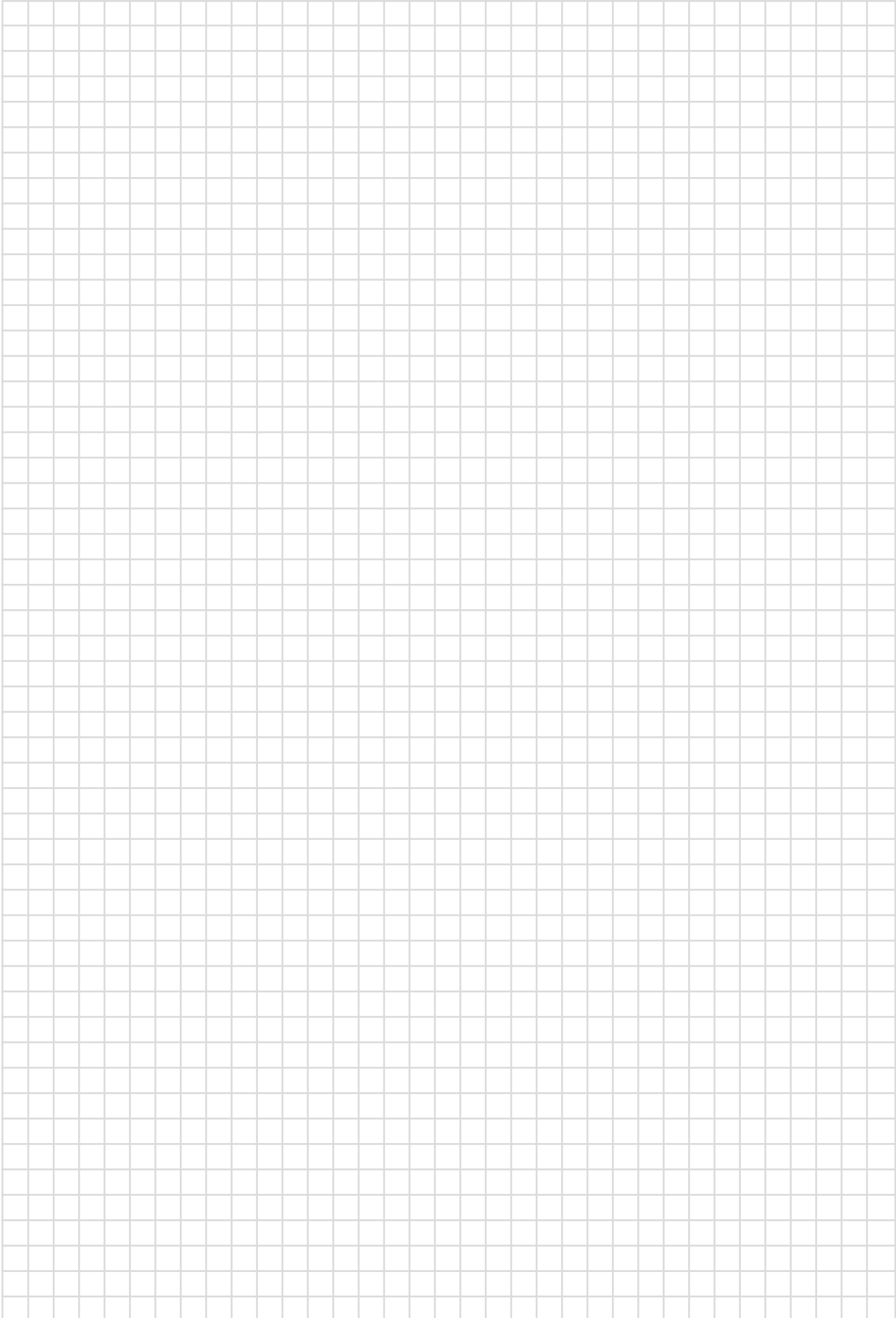
10.3 As a supplement, the provisions in No. 6 of the General Terms of Sale and Delivery apply.

11. Delivery

The Purchaser will be handed the necessary number of duplication units of the software in machine-readable form, stored either on data media that correspond to state-of-the-art technology and which can be read on the Purchaser's computer systems or transmitted via remote data transfer, according to the Purchaser's preference. One copy of the user documentation and other material will be supplied in electronic or written form, according to the Seller's preference.

12. Procedures at the end of the Contract

At the end of the Contract, the Purchaser undertakes to delete all duplication units of software in the Purchaser's possession and to return the documentation and other documents.

Honeywell