ACS-8

Access Control System

The ACS-8 is a forward looking access control system which is modular in construction and highly autonomous.

A particularly noteworthy performance feature is the flexible and freely-selectable installation technology. This enables conventional connection of up to two separate doors or one door with an internal and external reader.

An extension option of up to max. 8 doors exists via the communication module utilising core conserving RS-485 bus technology. Additionally it is possible to connect online DLC reader modules (door cylinders) and DLF electronic fittings on the ACS-8 RS-485 module bus via radio communication.

Standard features includes two RS-485 interface drivers integrated in the communication module.

The ACS-8 firmware can be upgraded via PACS system (e.g. IQ MultiAccess).

Access control rights are set up and administered via the access control software (e.g. IQ MultiAccess).

Flexible technology:

A special feature is the flexible installation technology. So doors can be managed, either conventionally or via RS-485 bus technology.

FEATURES & BENEFITS

- Intelligent access control terminal for 2 doors conventionally, up to max. 8 doors via RS-485 module bus
- Upgradable program memory and dynamic memory administration
- Battery-buffered memory (0.5 MB, expandable up to 3.5 MB)
- Approx. max. 65 500 identification cards*
- Approx. max. 512 room/time zones*
- Free programmable holiday and leave calendar
- Buffer for max. 65000 events*
- Clock with date and automatic daylight saving time/normal time changeover
- VdS approval
- Connection onboard for:
  - 2 readers with clock/data interface and 2 keypads with 2-wire interface
  - 4 relay outputs (e.g.: door strike, flash lamp, etc.)
  - 3 semiconductor outputs (e.g.: threat, watchdog, etc.)
- User-friendly and flexible event control via inputs and relays
- Macro-control (IACP control, lift control, etc.)
- Anti passpack, barring repeated entry, threat code, counter control
- Lock function with reciprocal door state influence

** Values depend on the memory configuration and programming of dynamic memory*

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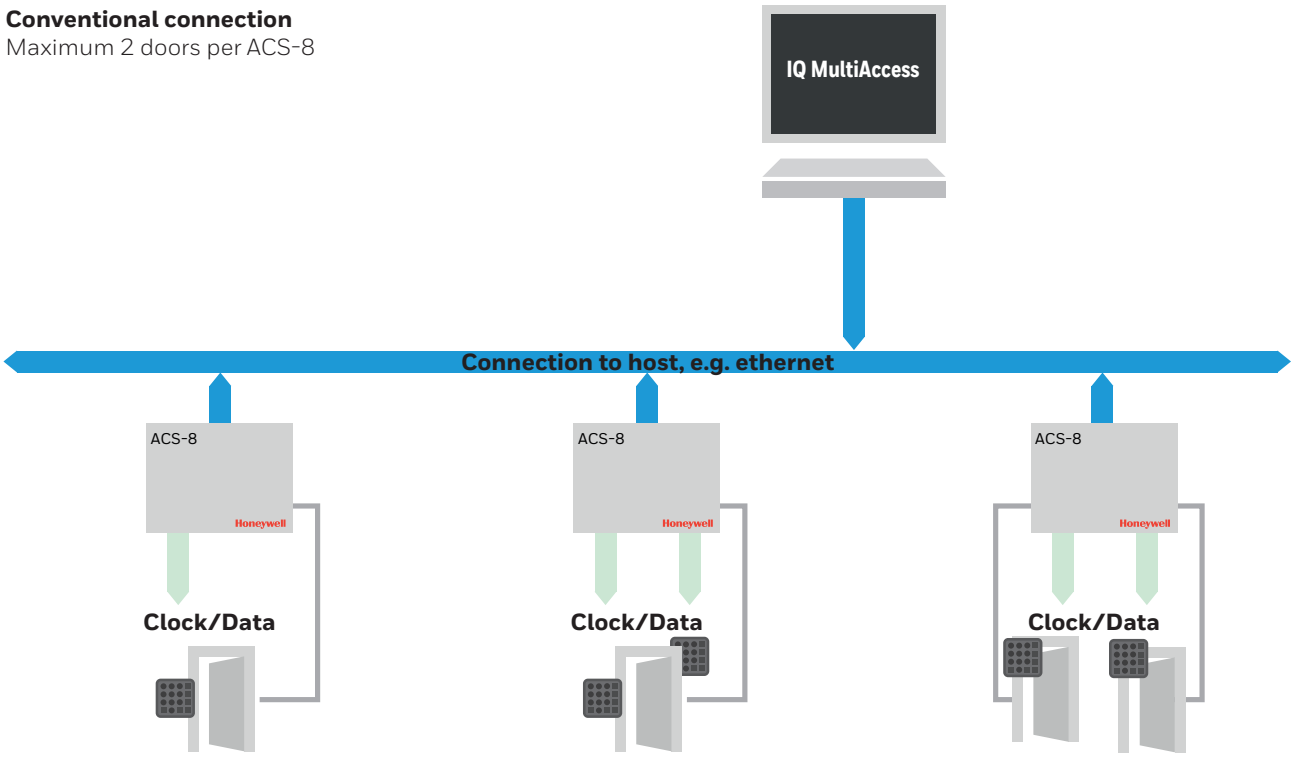
ACS-8 PLANNING EXAMPLE

Conventional connection
Maximum 2 doors per ACS-8



a) One door, one reader

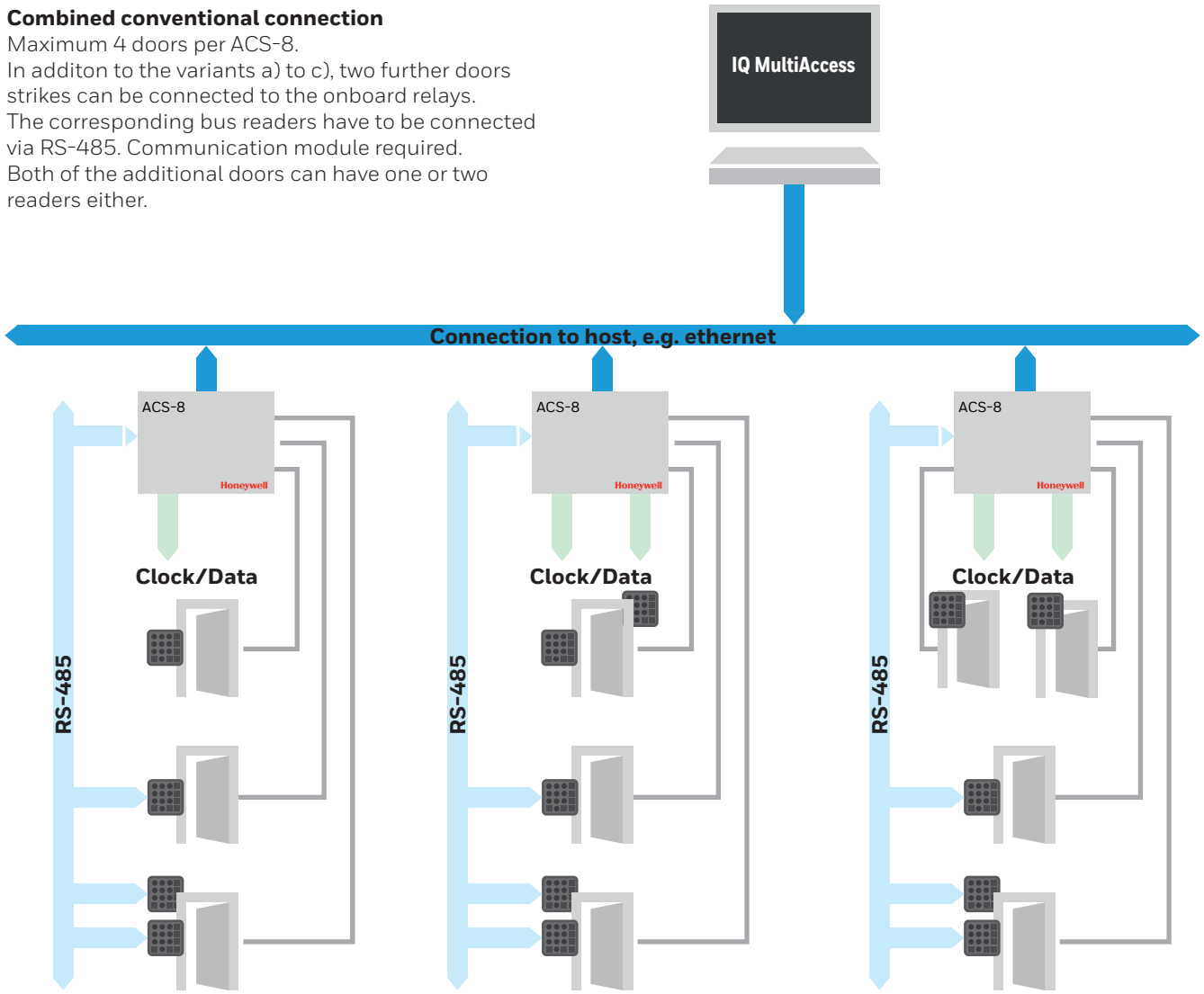
b) One door, two readers

c) Two doors with one reader each

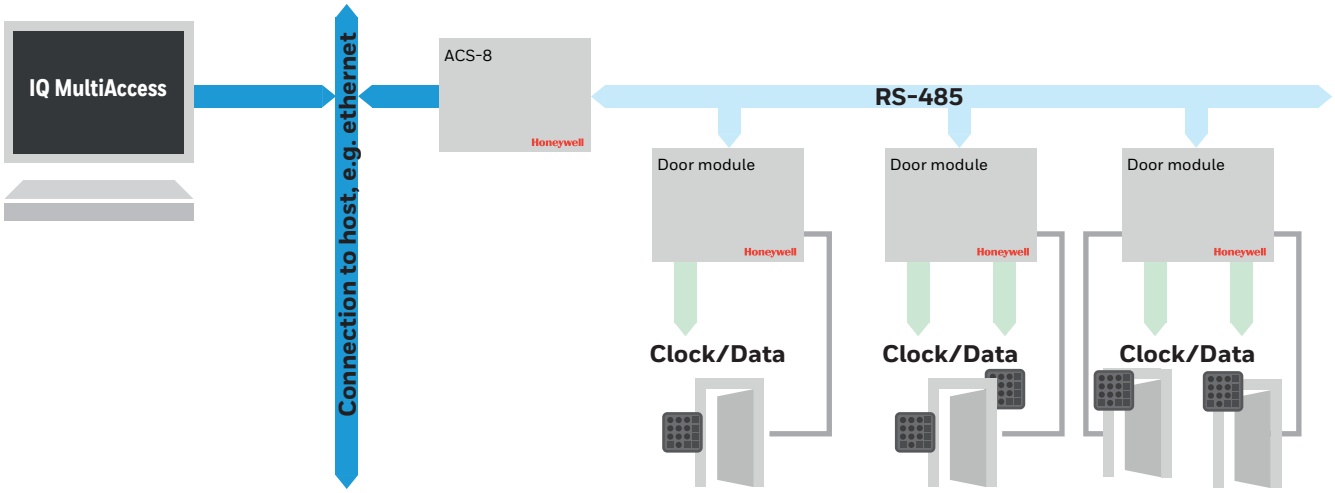
Multi-site networking
Routers via VPN enable networking of different locations

ACS-8 PLANNING EXAMPLE

Combined conventional connection
Maximum 4 doors per ACS-8.
In additon to the variants a) to c), two further doors strikes can be connected to the onboard relays.
The corresponding bus readers have to be connected via RS-485. Communication module required.
Both of the additional doors can have one or two readers either.

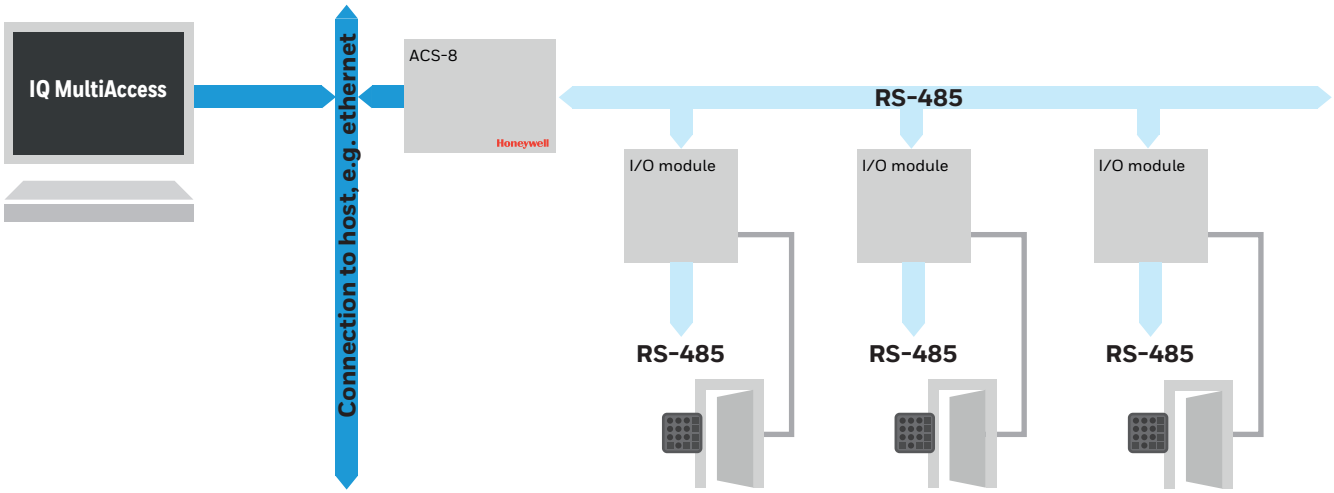


Connection via door module
Maximum 8 doors with entry and exit reader per ACS-8.
Communication module required.

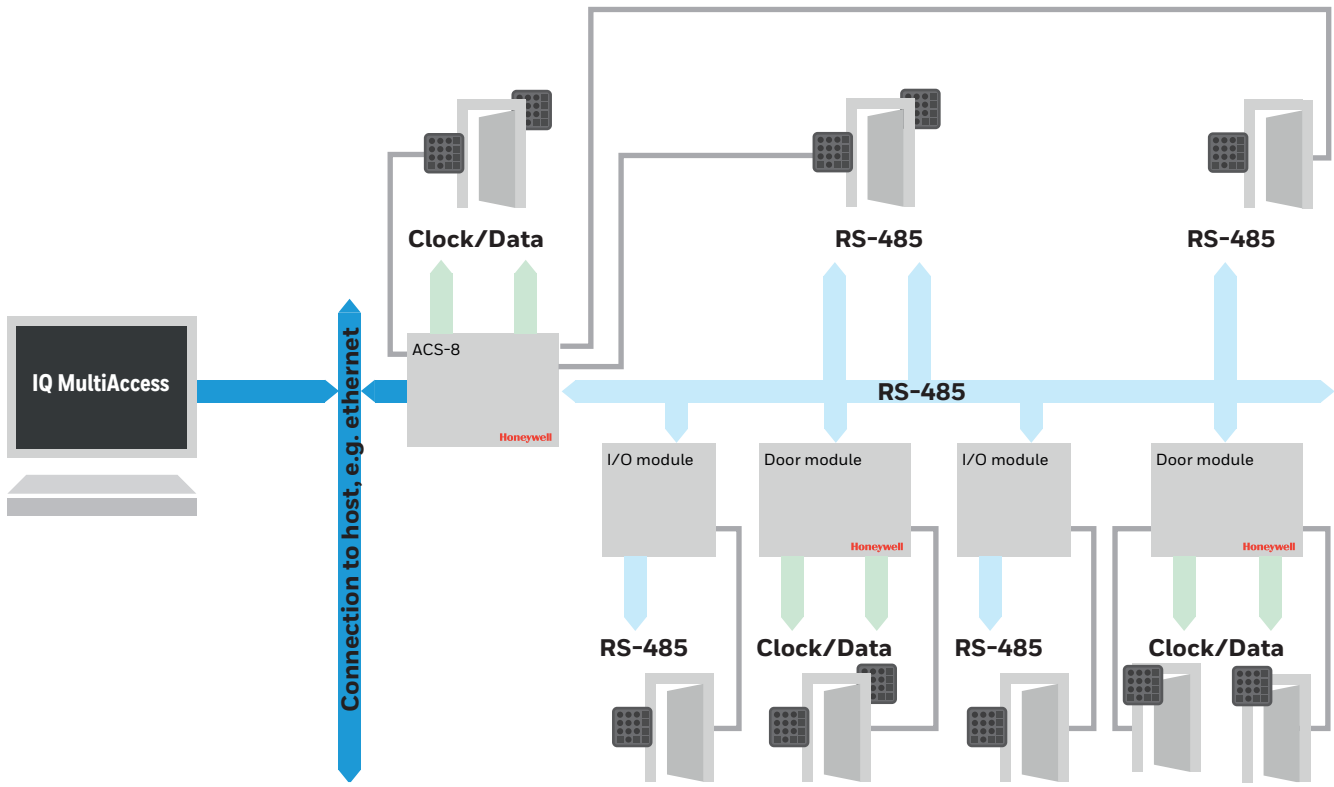


ACS-8 PLANNING EXAMPLE

Connection via I/O module
One door with one BUS reader per each I/O module.
Maximum 8 doors with one reader for each ACS-8.
Communication module required.



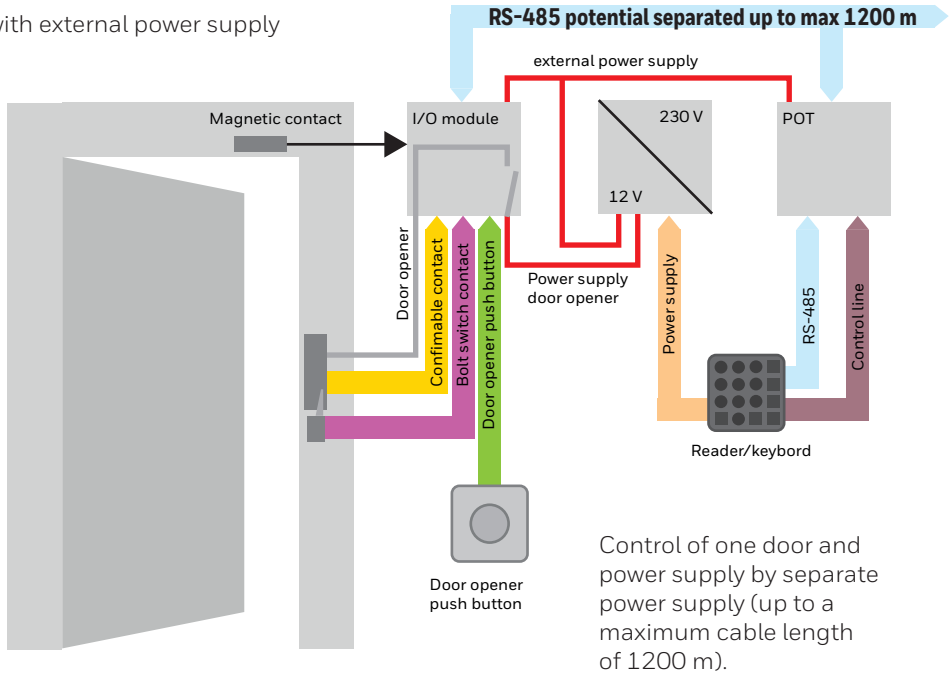
Combined connection possibilities
All previously displayed connection possibilities can be combined in any order.
However, the maximum number of 8 doors per ACS-8.



ACS-8 PLANNING EXAMPLE

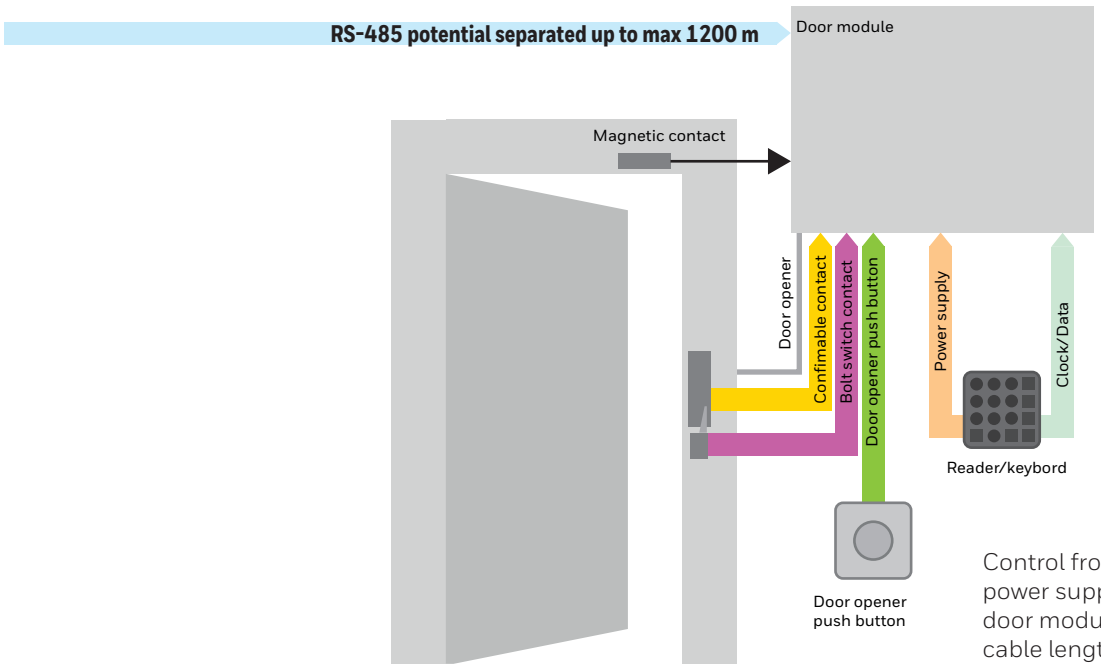
Connection to I/O module with external power supply and potential separation module

Potential separation module is recommended for:
- Larger cable lenght of BUS
- BUS wiring outside buildings
- Operation of reader/keyboard with external power supply



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

Connection to door module with direct power supply from door module



Control from a door and power supply directly from the door module (up to a maximum cable length of 1,200 m).

ACS-8 PRODUCT FAMILY

026585 VdS -certification Z105009, class C — ACS-8 Basic system, 230 V AC

power supply/charger 010 690.02

Technical data

Rated operating voltage	230 V AC
Rated operating voltage range	230 V AC -15% +10%
Current consumption without periphery	1,4 A
Battery space	1 x 018003.10 (3,5 Ah) or 2x 018002.10 2,0 Ah)
Environmental protection class acc. to VdS	II
Operating temperature range	-0 °C to 45 °C
Storage temperature range	-25 °C to 70 °C
Housing / Dimensions (W x H x D)	Sheet steel / 350 x 280 x 100 mm
Colour	Grey-white (similar to RAL 9002)

026575 VdS -certification Z105009, class C — ACS-8 Basic system with freely-selectable power supply unit integration

Power supply unit selection depends on the connected consumers.

One of the following power supply/charger units can be utilised, depending on current requirement:
012168 = 80 Ah/continuous current consumption: 3,5 A
012170 = 130 Ah/continuous current consumption: 5,0 A

Technical data

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

026580 VdS -certification Z105009, class C — ACS-8 Basic system, 12 V DC

Technical data

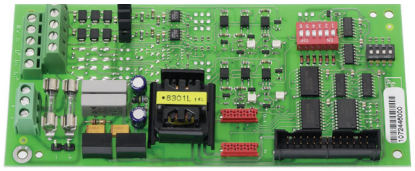
Rated operating voltage	12 V DC
Rated operating voltage range	10 V DC to 15 V DC
Current consumption without periphery	max. 150 mA
Environmental protection class acc. to VdS	II
Operating temperature range	-0 °C to 45 °C
Storage temperature range	-25 °C to 70 °C
Housing / Dimensions (W x H x D)	Sheet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

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

026587 — Communication module



The ACS-8 communicates via the communication module with the connected RS-485 users. Standard features includes 2 separated RS-485 interface drivers integrated in the communication module. A maximum of 2 communication modules can be integrated per ACS-8. A maximum of 32 users can be connected simultaneously per ACS-8.

Technical data

Current consumption	max. 150 mA

026590 — Input module, RS-485

Technical data

Digital inputs	4 x with potential separation
Current consumption	9 V DC to 15 V DC
Rated operating voltage range	max. 140 mA
Dimensions (W x H x D)	118 x 118 x 30 mm
Colour	Grey-white (similar to RAL 9002)

ACS-8 PRODUCT FAMILY

026591 — Output module, RS-485

Technical data

Relays	4 x 24 V DC / 1 A
Rated 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
Colour	Grey-white (similar to RAL 9002)

026592 — Input/Output module, RS-485

Technical data

Differential inputs	2 x erasable
Digital inputs	2 x with potential separation
Relays	2 x 24 V DC / 2 A
Rated 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
Colour	Grey-white (similar to RAL 9002)

026595.10 — Potential separation module, RS-485

A maximum of 4 modules with RS-485 bus without potential separation can be connected to the module. Recommended when using external power supply units and for long bus lines running outdoors as well as for installations over several buildings. Connectable modules are: All readers and keypads with RS-485 and control lead

Technical data

Connections	Control cable and potential separation RS-485 interface for up to 4 users
Rated operating voltage range	10 V DC bis 15 V DC
Current consumption	max. 120 mA
Dimensions (W x H x D)	118 x 118 x 30 mm
Colour	Grey-white (similar to RAL 9002)

026593.10 — Door module, 12 V DC, RS-485

The complete door periphery is wired to 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 decisions. With IQ MultiAccess (as of V3), a door module can control either one or two doors. To the door module, item no. 026593.10, also Wiegand readers can be connected. Prerequisite IQMA from V.12.

Technical data

Rated operating voltage	12 V DC
Rated operating voltage range	9 V to 15 V DC
Current cons. in no-load op. without ext. user	10 mA
Operating temperature range	-5 °C to +55 °C
Storage temperature range	-25 °C to +70 °C
Environmental protection class acc. to VdS	II
Housing	Plastic
Dimensions (W x H x D)	163 x 152 x 40 mm
Colour	Grey-white (similar to RAL 9002)

026594.10 — Door module, 230 V AC, RS-485

Integriertes Netz-/Ladeteil

As 12 V version, but with 230 V power supply unit.

Technical data

Rated operating voltage	230 V AC
Rated operating voltage range	230 V AC -15% to +10%
Current cons. in no-load op. without ext. user	65 mA
Operating temperature range	-5 °C to +55 °C
Storage temperature range	-25 °C to +70 °C
Environmental protection class acc. to VdS	II
Housing	Plastic
Dimensions (W x H x D)	250 x 210 x 100 mm
Battery space	1 x 018002.10 (2,0 Ah)
Colour	Grey-white (similar to RAL 9002)

ACS-8 ORDERING DATA

CONTROL UNIT VERSIONS

026580	ACS-8 Basic system, 12 V DC
026585	ACS-8 Basic system, 230 V AC (includes 010690.02 power supply/charger unit)
026575	ACS-8 Basic system with freely-selectable power supply unit integration (power supply unit selection depends on the connected consumers, VdS requires power supply units approved by VdS)

FUNCTIONAL ENHANCEMENTS

026587	Communication module (required for controlling more than 2 doors)

MODULE BUS USERS/ RS-485 MODULES

026590	Input module, RS-485 with potential separation
026591	Output module, RS-485 with potential separation
026592	Input/Output module, RS-485 with potential separation
026595.10	Potential seperation module, RS-485
026593.10	Door module, 12, V DC, RS-485
026594.10	Door module, 230 V AC, RS-485
022963	Wireless module RS-485 for DLC and DLF online

ACCESSORIES

026840.29	10/100 MBit/s ethernet host interface
018002.10	Rechargeable battery 12 V DC / 2.0 Ah
018003.10	Rechargeable battery 12 V DC / 3.5 Ah
012168	Power supply/charging unit 80 Ah/permanent current drain: 3,5 A
012170	Power supply/charging unit 130 Ah/permanent current drain: 5,0 A

INFO

For information on DLC and DLF products, please refer to the product catalog.

The following components can be connected to the communication module:

- RS-485 magnetic card reader
- RS-485 Legic reader
- RS-485 mifare reader
- Prox reader RS-485
- Keypad RS-485
- RS-485 12 V version/230 V version door module
- RS-485 input module
- RS-485 output module
- RS-485 input/output module
- Wireless module RS-485
- Biometrics: Fingerkey and/or integration of biometrical systems via RS-485 module bus
- Arming/disarming of an intrusion alarm system via AC-readers realized by using inputs/outputs and macro programming in IQ MultiAccess

Further information
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