Honeywell

ACS-8-System

Access Control

The ACS-8 is an 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 expansion option of up to max. 8 doors exists via the communication module utilising core-conserving RS-485 bus technology. Additional 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 include two controllable RS-485 interface drivers integrated in the communication module.

The firmware is completely upgradable. Time-consuming EPROM changing during function expansion is thus a thing of the past.

New program components and expansions can be imported in the controllers via the access control software (e.g. IQ MultiAccess).

Up to 16 ACS-8 units can be operated via an external interface converter. Access control rights are set up and administered via the access control software (e.g. IQ MultiAccess).

The ACS-8 contains decision rights for door release and control.

Terminals can be integrated directly in existing ethernet networks (LANs) through selective configuration with an ethernet card (026840.29).

A maximum expansion of 999 doors per location can be achieved.

Performance features at a glance

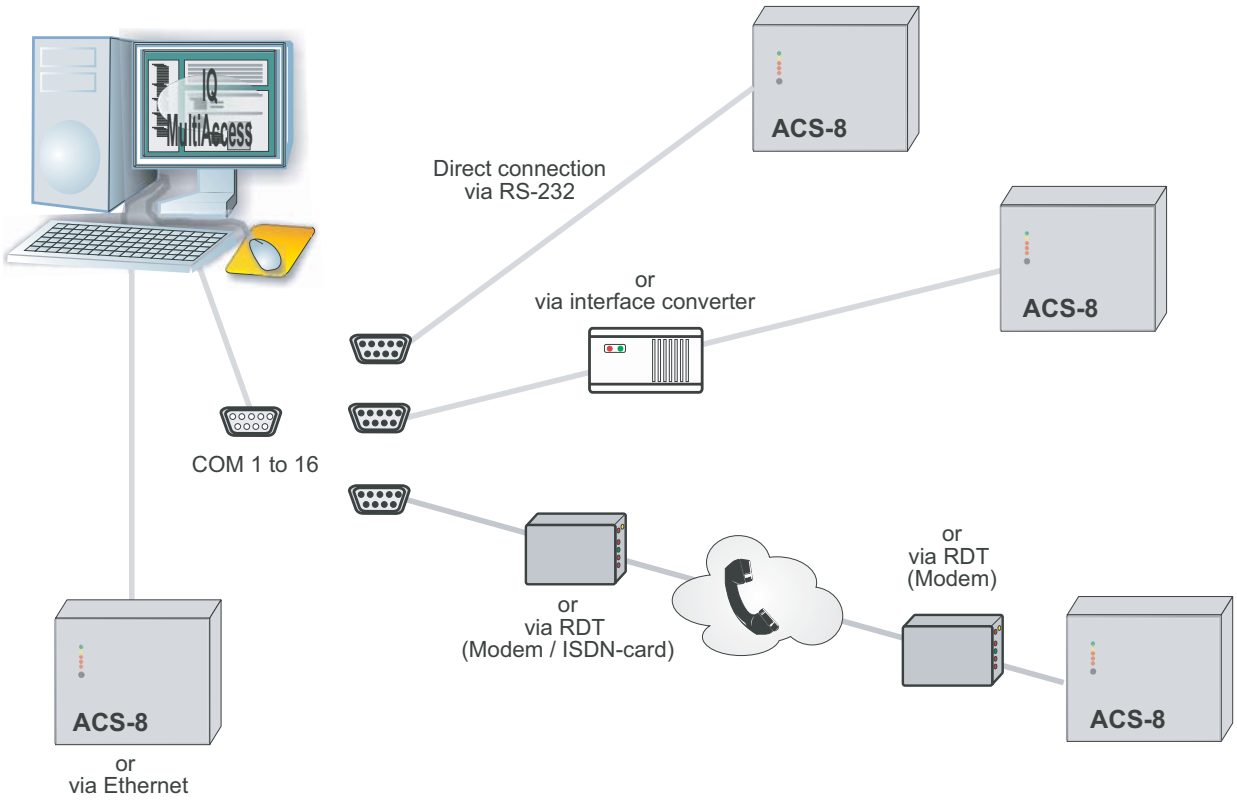
- **Intelligent access control terminal up to 4 doors (4 doors strikes, 2 readers/keypads directly connectable, 2 futher readers/keypads via RS-485 module bus, expandable up to max. 8 doors via RS-485 module bus)**
- **Upgradable program memory and dynamic memory administration**
- **Battery-buffered memory (0.5 MB, expandable up to 3.5 MB)**
- **Approx. max. 65 500 identification cards***
- **Approx. max. 512 room/time zones***
- **National holiday and leave calendar**
- **Booking 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 possible**
  - **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 parameterising of dynamic memory administration.

ACS-8 planning example

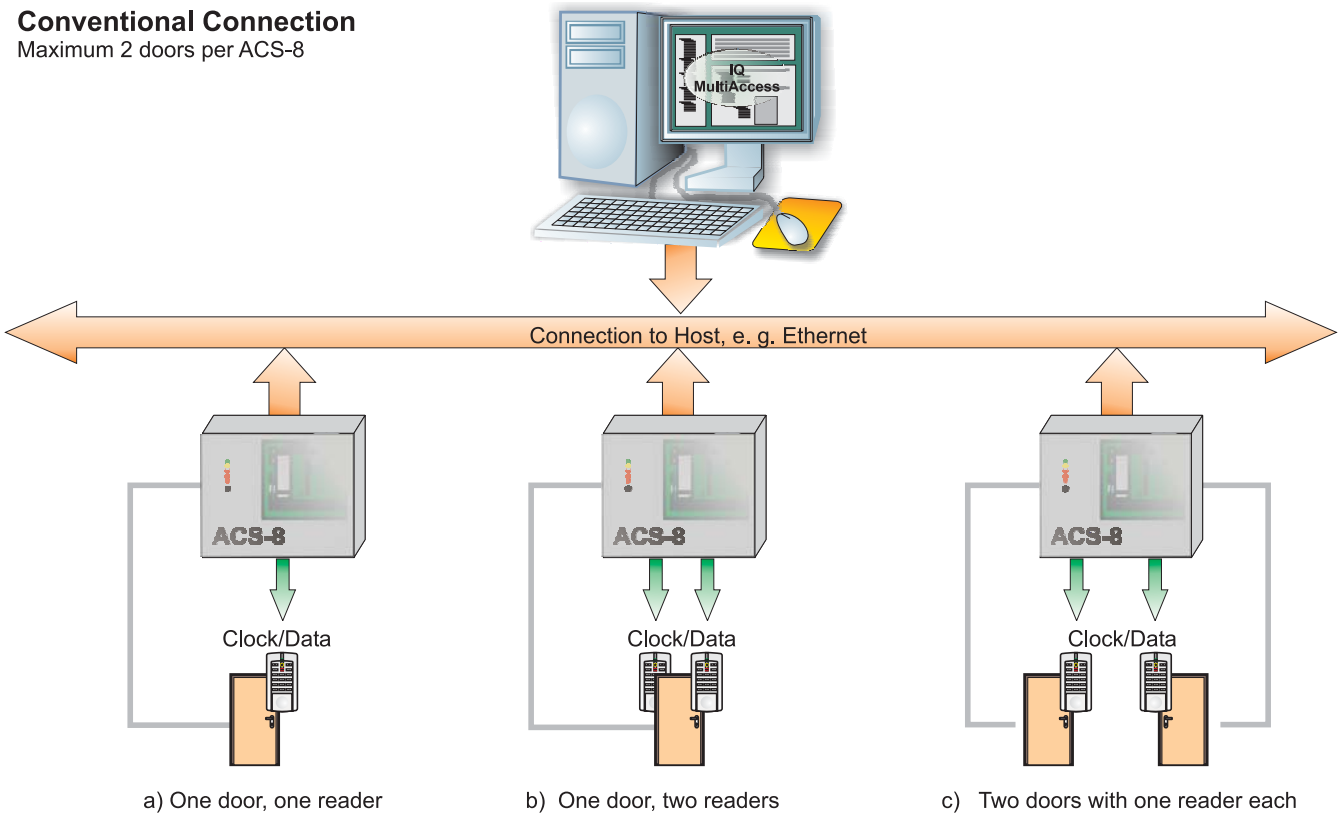
Host connection possibilities of ACS-8

With IQ MultiAccess, the individual connection possibilities can be combined in any way.
MultiAccess Lite does not support ACS-8 controllers.



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

ACS-8 planning example

Combined conventional connection

Maximum 4 doors per ACS-8.
In addition 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.
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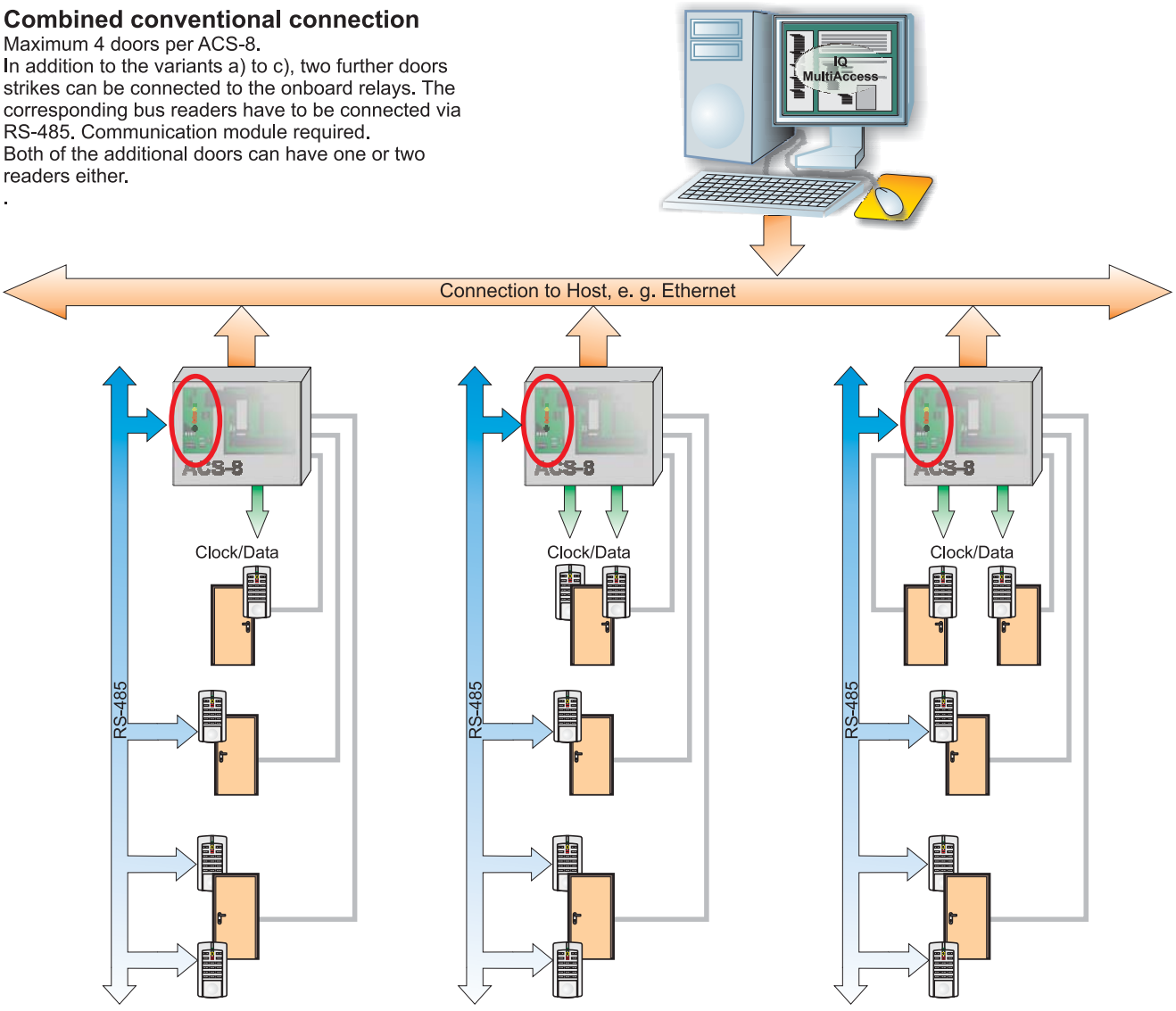
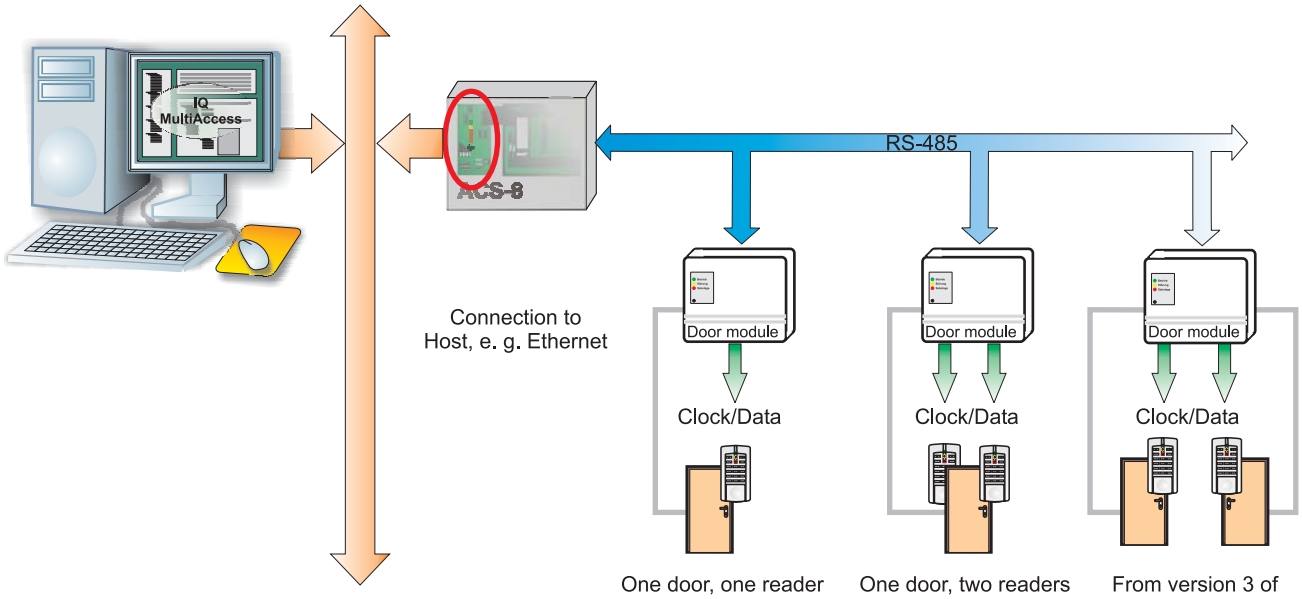


Connection via door module

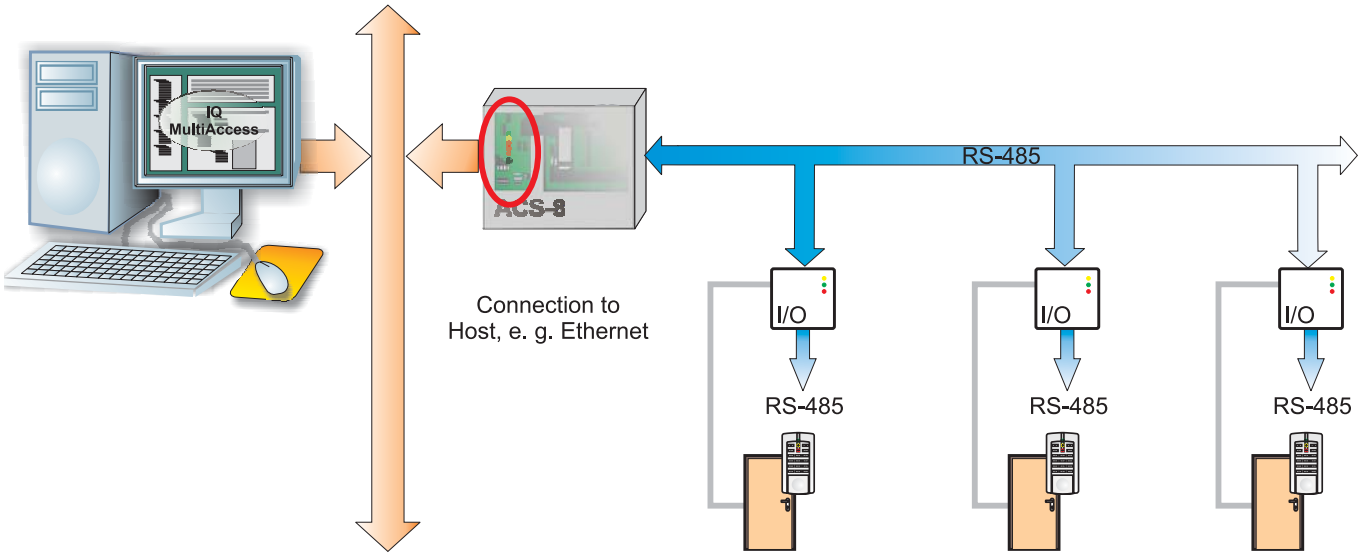
Maximum 8 doors with entry and exit reader per ACS-8
Communication module required



ACS-8 planning example

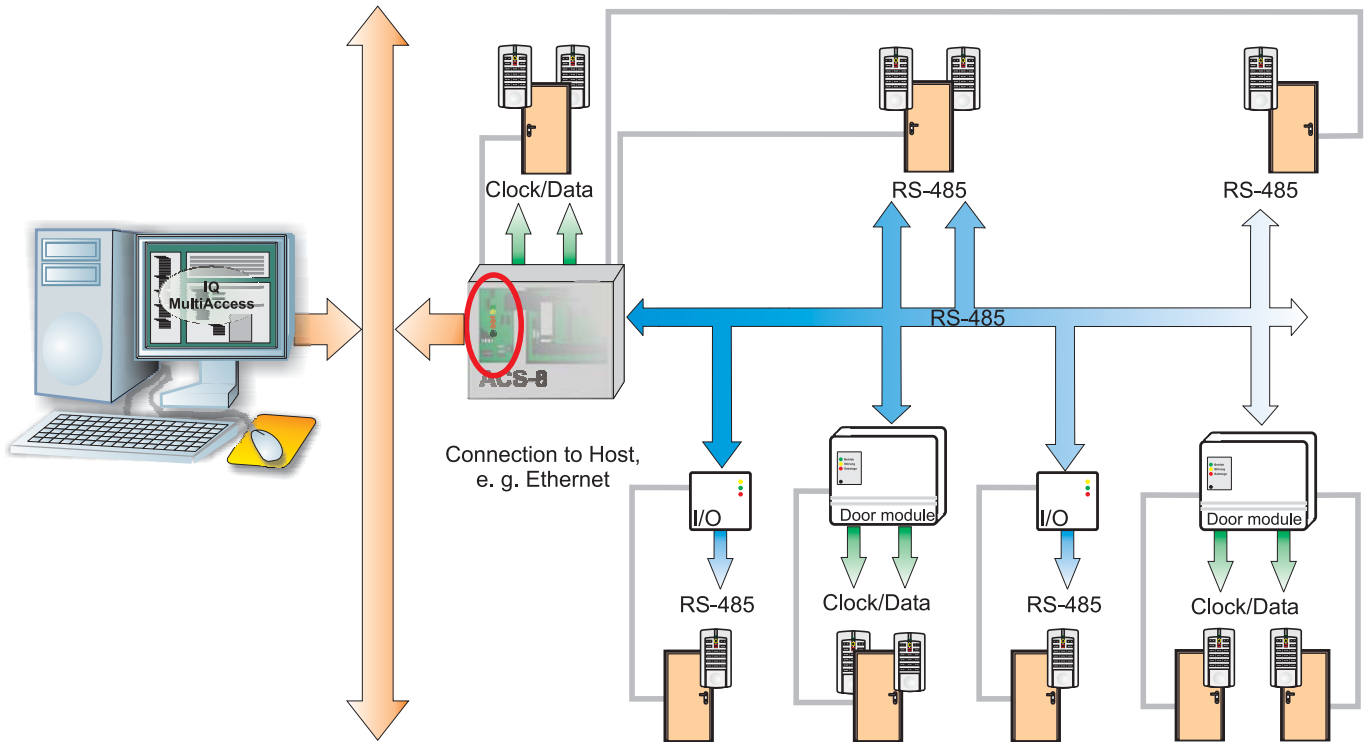
Connection via door module

Maximum 8 doors with entry and exit reader per ACS-8
Communication module required



Combined connection possibilties

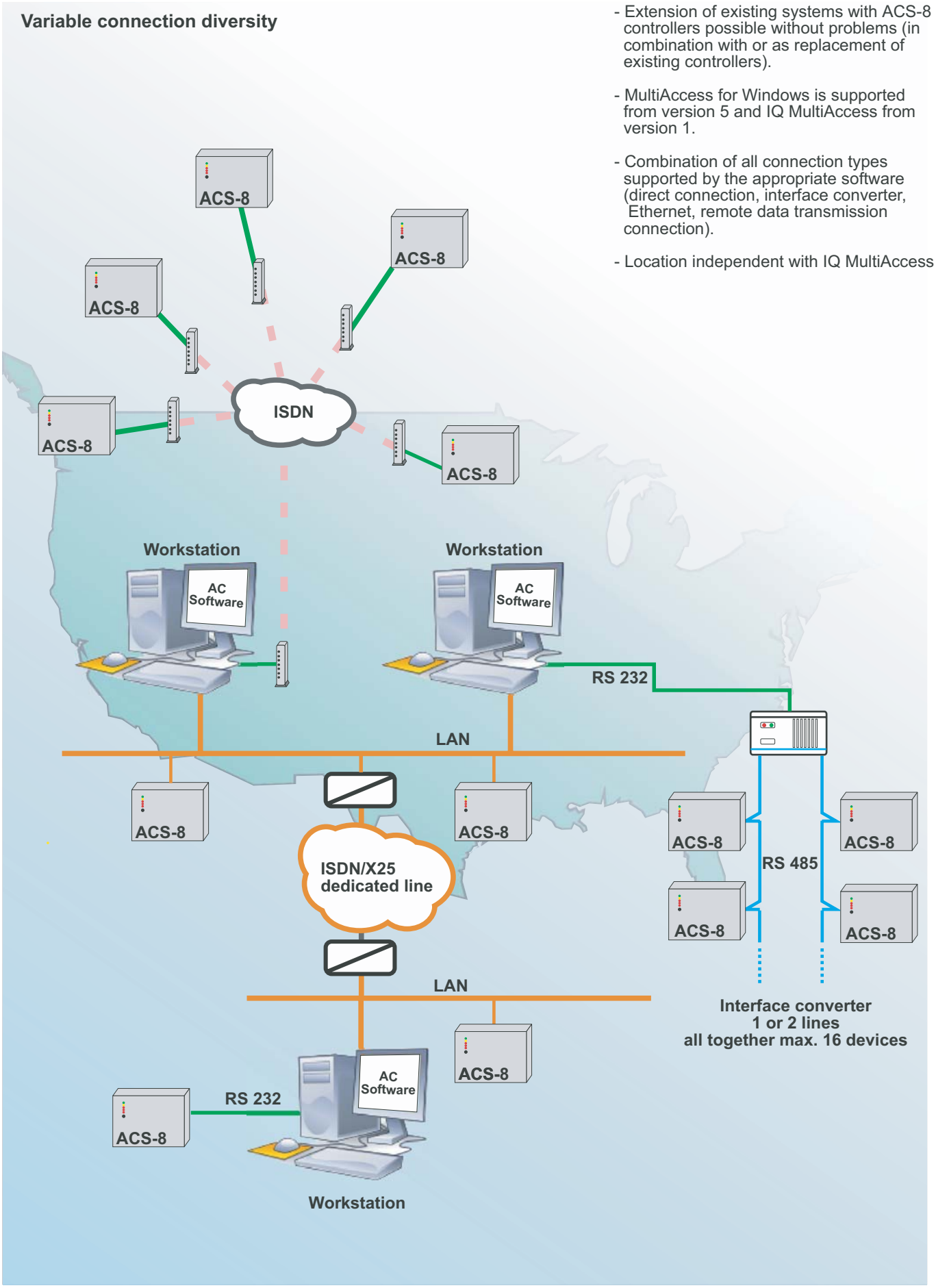
All previously displayed connection possibilities can be combined in any order.
However, the maximum number of 8 doors per ACS-8 must not be exceeded.



ACS-8 planning example

Variable connection diversity

- 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, Ethernet, remote data transmission connection).
- Location independent with IQ MultiAccess



026580 Basic ACS-8 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
Operating temperature range	-5°C to +55°C
Storage temperature range	-25°C to +70°C
Environmental protection class acc. to VdS	II
Colour	Grey-white (similar to RAL 9002)
Housing / Dimensions (W x H x D)	Sheet steel / 250 x 210 x 100 mm

026585 Basic ACS-8 system, 230 V AC (As for 12 V version)

Technical data

Rated operating voltage	230 V AC
Rated operating voltage range	230 V AC -15% +10%
Continuous current consumption	1,4 A
Battery space	1 x 018003.10 (3,5 Ah) or 2 x 018002.10 (2,0 Ah)
Colour	Grey-white (similar to RAL 9002)
Housing / Dimensions (W x H x D)	Sheet steel / 350 x 280 x 100 mm

Includes 010 690.02 power supply/charger unit

026575 Basic ACS-8 system with freely-selectable power supply unit integration

As for 230 V version, but without power supply unit.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 DC
Rated operating voltage range	10 V DC to 15 V DC
Current consumption without periphery	max. 150 mA
Operating temperature range	-5°C to +55°C
Storage temperature range	-25°C to +70°C
Environmental protection class acc. to VdS	II
Colour	Grey-white (similar to RAL 9002)
Housing / Dimensions (W x H x D)	Sheet steel / 350 x 280 x 100 mm

Power supply unit selection depends on the connected consumers.

Memory expansions

026596	1 MB RAM memory card
026597	2 MB RAM memory card
026598	3 MB RAM memory card

Function expansion

026587 Communication module

The ACS-8 communicates via the communication module with the connected RS-485 users. Standard features include 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

Module BUS users / RS-485 modules

026590 Input module, RS-485 with potential separation

Technical data

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

026591 Output module, RS-485 with potential separation

Technical data

Relays	4 x 24 V DC/1 A
Current consumption	max. 250 mA
Rated operating voltage range	9,5 V DC to 15 V DC
Dimensions (W x H x D)	118 x 118 x 30 mm

026592 Input/Output module, RS-485 with potential separation

Technical data

Differential inputs	2 x erasable
Digital inputs	2 x with potential separation
Relays	2 x 24 V DC /2 A
Current consumption	max. 230 mA
Rated operating voltage range	9,5 V DC to 15 V DC
Dimensions (W x H x D)	118 x 118 x 30 mm

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 as well as 026593.10 and 026594.10.

Technical data

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

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. The number of doors to control by a door module depends on the access control software used.
MultiAccess for Windows: 1 door; IQ MultiAccess: 2 doors.
The following components can be connected simultaneously to the door module:

- two clock/data readers
- two Wiegand readers
- two Wiegand keypads
- a door release push-button
- a tamper switch

Inputs:
- four detctor lines (e.g. for bold switching contact)

Outputs:
- two relays
- one semiconductor output

(If 2 doors are controlled by a door module, the number of inputs and outputs left for individual use reduces as they are required as monitoring contact, door strike relay and door strike key for the second door.)

Technical data

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

026594.10 Door module, 230 V AC, RS-485

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 consumption in no-load operation 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
Colour	Grey-white (similar to RAL 9002)
Battery space	1 x 018002.10 (2,0 Ah)
Housing / Dimensions (W x H x D)	Plastic / 250 x 210 x 100 mm

Power supply unit with battery charging circuit

Additional performance features

- 4 digital inputs (e.g.: door strike push-button, 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, 10/100 Mbit/s fast ethernet, Current Loop)
- Variable door release, monitoring and alarm times
- Automatic function control via time zones (e.g.: door release, etc.)
- Special relay function for real-time release for rescue route integration
- RS-485 module bus (optional)
- Flexible power supply unit configuration, depending on power requirement
- 12 V DC emergency power supply, depending on power supply unit configuration and power requirement
- VdS-approval Z 105009, class C
- Support of analog modems and ISDN terminal adapters
- Direct modem connection without additional card

The following components can be connected to the communication module

- RS-485 magnetic card reader
- RS-485 Legic reader
- RS-485 mifare reader
- RS-485 Esser reader contactless
- RS-485 keypad
- RS-485 12 V version/230 V version door module
- RS-485 input module
- RS-485 output module
- RS-485 input/output module
- Traffic point RS-485 for DLC and DLF online
- Biometrics: Fingerkey and/or integration of bio-metrical systems via RS-485 module bus
- Arming/disarming of an intrusion detection system via AC-readers to be realized using inputs/outputs and macro programming in IQ MultiAccess

Accessories

026692	RS-485 interface (5-wire / 3-wire) without potential separation
026693	RS-485 interface (5-wire / 3-wire) with potential separation
026840.03	Asynchronous RS-232 host interface
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

Order data

Item no.	Description
	Central control unit versions
026580	**Basic ACS-8 system, 12 V DC** VdS **approval Z 105009, class C**
026585	**Basic ACS-8 system, 230 V AC (includes 010690.02 power supply/charger unit)** VdS **approval Z 105009, class C**
026575	**Basic ACS-8 system with freely-selectable power supply unit integration (power supply unit selection depends on the connected consumers, VdS only with power supply units approved by VdS)** VdS **approval Z 105009, class C**
026587	**Communication module (required for controlling more than 2 doors)**

Item no.	Description
	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	**Traffic point RS-485 for DLC and DLF online**

For further data and information on DLC and DLF products see our product catalogue.

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