



AC5100

SiPass®
integrated

Advanced central controller (ACC)

- Central controller for SiPass integrated access control systems
- Support for 500,000 cardholders
- Support for up to 64 doors with SiPass integrated V2.11 or higher
- Support for up to 96 doors with SiPass integrated V2.3 or higher
- Up to six field level network (FLN) channels (RS485)
for local device connection
- Up to 16 local devices can be connected to each FLN
- Building level network (BLN) port for communication with the host system via Ethernet

The AC5100 advanced central controller (ACC) can be programmed with up to 500,000 cardholders and up to 96 doors. It has been specially designed for maximum flexibility, and provides six separate field level network (FLN) channels. Each FLN is capable of hosting up to 16 local devices for access control, monitoring input devices or controlling output devices.

The ACC also has a diagnostic port that provides a direct connection to its microprocessor to facilitate the download of operating instructions (firmware). Firmware updates can be made without having to visit the controller cabinets. Communication to the host system occurs via a 10/100Mb Ethernet connection. This allows communications over any WAN or LAN where devices on the network can be assigned a unique IP address. This type of communication ensures the fastest possible transaction times between the host system and ACC field panels.

The ACC hosts a tamper input that can be used to detect if the cabinet in which it has been mounted has been opened. It also provides an alarm output that can operate a visual or audio alarm when security has been breached.

Technical data

AC5100	
Additional components	ACK5100 diagnostic/parameterization cable, ACK5110 cable for modem connection
Interface	Communication interfaces: <ul style="list-style-type: none">• Field level network (FLN): 5 x RS485 plus 1 x RS232/RS485/RS422• Building level network (BLN): 10/100 MB Ethernet (RJ45)• RS232 (RxD, TxD, GND, RJ12) for modem connection
Operating voltage	24 VDC (-10 / +20%)
Power consumption	10 W
Alarm input	1 x Tamper input (internally supplied, unsupervised)
Alarm output	1 x Alarm output (externally supplied MOSFET switch, max 12V, 100 mA)
Tamper switch	Optional
Door capacity	96
Card capacity	500,000
Indicators	FLN communication, Modem, Status, Battery, Ethernet, Compact Flash
LCD Display	None
Keypad	None
Operating temperature	0 to +50 °C
Environment	Indoor use only
Housing	Steel/Plastic
Colour	Grey
Dimensions (W x H x D)	246 x 291 x 98 mm
Approval	CE, UL294, C-Tick
Storage temperature	-10 – +70 °C (14 – 158 °F)
Humidity	5 – 90% (non condensing)
Display elements	21 status LEDs
RTC battery	3.0 V, type CR2032
Processor	32-bit (50MIPS)
Main memory	64 MB
Flash memory	Firmware update
European Directive “Electromagnetic Com- patibility“	Emitted interference: EN 55022/A2 Class B Interference resistance: EN 50130-4/A1

Field level device load calculation

FLN device	Configuration units
ADS5200 (SRI)	1 load
ADD5100 (DRI)	2 loads
AFI5100 (IPM)	4 loads
AFO5100 (OPM)	4 loads (2 when used for elevator control)
ADE5300 (ERI)	8 loads
AFO5200 (8IO)	2 loads
FLN channel	Maximum configuration unit value
FLN #1	16 loads
FLN #2	16 loads
FLN #3a/3b	16 loads (any arbitrary splitting)
FLN #4	16 loads
BLN	16 loads
ISA/ISB	16 loads

Example of a load calculation:

ADE5300 + AFI5100 + 2 x ADD5100 = 16 loads

Details for ordering

Type	Part no	Designation	Weight
AC5100	6FL7820-8BA10	Advanced central controller (ACC)	2.67 kg
Accessories, not included in scope of delivery!			
ACK5100	6FL7820-8FB10	SiPass integrated parameterization cable	0.2 kg
ACK5110	6FL7820-8FB11	SiPass integrated modem cable	0.2 kg