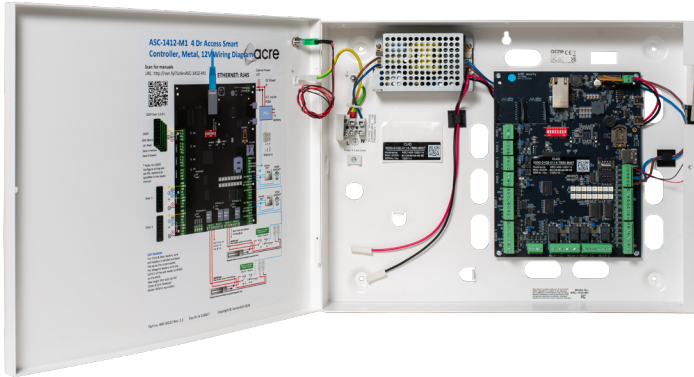


The **acre Smart Controller** is designed to enhance the security of your operations, delivering flexible and secure hardware solutions tailored to your specific needs.



### Cost-Efficient and Flexible Design

The acre Smart Controller provides an unmatched combination of cost-effectiveness and design agility, allowing for rapid adaptation to market demands. Investing in acre hardware means choosing a solution that evolves with your business.

### Features at a Glance

- ✓ Manage 2 doors with Wiegand or 4 doors using OSDP, supporting up to 8 readers for versatile entry and exit monitoring.
- ✓ 4 relay outputs and 12 contact inputs provide extensive connectivity options.
- ✓ Cardholder capacity of 50,000. Assign up to 512 access levels per cardholder for granular security control.

### Cost-Savings without Compromise

Reduce your expenses without sacrificing quality. The acre Smart Controller is competitively priced and provides enhanced features such as additional inputs, making it the superior choice for budget-conscious businesses.

**Secure your assets and simplify your access control systems with the acre Smart Controller—where innovation meets security.**

### Key Features

- ✓ Supports up to 4 doors, 12 inputs, and 4 relay outputs
- ✓ Enhanced features like extended door entry/egress times and 4-15 digit PIN code support enhance your security measures
- ✓ Supports 50,000 Cardholders and 50,000 Transaction buffer
- ✓ Supports multiple card formats, paired and alternate readers, elevator and turnstile devices
- ✓ Anti-passback support: area, hard, soft, timed forgiveness
- ✓ 4GB eMMC on board and 4Gbit of DDR3 RAM
- ✓ 1 GB Ethernet
- ✓ Host communications protected by TLS 1.3 encryption in transit and AES 256-bit encryption at rest
- ✓ Encrypted file system including database
- ✓ Memory and Clock Battery Backup
- ✓ Power Supply monitoring via onboard dry contact
- ✓ Compliance with FCC, CE, and UL standards ensures top-quality and safety

## Acre Smart Controller

<b>Access Control</b>	50,000 cardholder capacity, 512 access levels per cardholder 50,000 transaction buffer Supports total of 4 RS-485 IO protocols Cardholder - 19 Digit (64 Bit) User ID with 15 digit PIN MAX Activation/Deactivation Anti-passback support: area, hard, soft, timed forgiveness
<b>Door Control</b>	Natively supports up to 8 readers and 4 openings connected over OSDP, or 4 readers and 2 openings over Wiegand
<b>OSDP Profiles</b>	Basic and Secure Channel *Please refer to Technical Support to validate if your reader is compatible

### GENERAL

<b>Primary Power</b>	12 to 24 VDC $\pm$ 10 %, 160mA @12v, 110mA @ 24v maximum (reader and USB ports not included)
<b>Reader Port</b>	1A max shared by all readers maximum (add 1A max shared by all readers to primary power current)
<b>USB-C Port</b>	For Diagnostic Purposes
<b>Battery</b>	Memory/Clock Backup: 3 Volt Lithium, type BR2032 or CR2032
<b>microSD Card</b>	2GB to 256GB
<b>Host Communication</b>	Ethernet: 10/100/1000 Base-TX and USB port (3.0) with optional adapter
<b>Serial I/O Device</b>	2-wire RS-485, 2,400 to 115,200 bps, asynchronous, half-duplex, 1 start bit, 8 data bits, and 1 stop bit
<b>Inputs</b>	12 programable analog inputs for access control features. 4 programmable Open collector Outputs. 4 Dedicated Inputs for Tamper/Fire/Battery/Mains Monitoring.
<b>Output Relays</b>	Four relays, Form C, NO/NC 5A @ 30 VDC resistive with LED Status Indicator
<b>Transistor Outputs</b>	4 General purpose open collector 30 vDC sink 100 mA each

### READER INTERFACE

<b>Reader Power</b>	12-24 VDC $\pm$ 10 % regulated, 500 mA maximum each reader
<b>RS-485 Mode</b>	9,600 to 115,200 bps, asynchronous, half-duplex, 1 start bit, 8 data bits, and 1 stop bit. Max. cable length: 2000 ft. (609.6 m)
<b>LED Output</b>	TTL levels, high>3 V, low<0.5 V, 5 mA source/sink maximum
<b>Buzzer Output</b>	Open collector, 12 VDC open circuit maximum, 40 mA sink maximum

### CABLE REQUIREMENTS

<b>Power and Relays</b>	1 twisted pair, 16 AWG
<b>Ethernet</b>	CAT-5, minimum, CAT-6 recommended
<b>Reader TTL</b>	6-conductor, 18 AWG, 500 feet (150 m) maximum
<b>Reader RS-485</b>	1 twisted pair, shielded, 120 ohm terminated, 24 AWG, 2,000 ft. (610 m) max.
<b>I/O Devices</b>	1 twisted pair with drain wire and shield, 120 ohm terminated, 24 AWG, 4,000 ft. (1,219 m) maximum

### ENVIRONMENTAL

<b>Temperature</b>	-55 to +85 °C, storage, 0 to +55 °C, operating
<b>Humidity</b>	5 to 95% RHNC

### COMPLIANCE AND WARRANTY

<b>Product Compliance</b>	UL 294 Recognized, FCC Part 15 Class A, CE Compliant, RoHS (2011/65/EU & 2015/863), EU REACH (1907/2006), California Proposition 65
<b>Warranty</b>	2 years

### ORDERING INFORMATION

<b>Product Code</b>	ASC-1400-B1	ASC-1400-M1/M2	ASC-1412-M1/M2
<b>Description</b>	4 Door Access Smart Controller, Board Only	4 Door Access Smart Controller, Metal Enclosure	4 Door Access Smart Controller, Metal Enclosure with 12V 60W PSU and 7Ah battery fitted separately

### MECHANICAL

<b>Dimensions</b>	205x155x30mm	310x265x65mm	390x310x75mm
<b>Weight</b>	300g	2.5Kg	3.7Kg