

# AX-MR51e

## Serial I/O controller

The Authentic Mercury AX-MR51e Access Platform is a network-connected, single-door, Power-over-Ethernet (PoE)-capable interface panel that provides an ideal integration solution when a network connection to the door is desired.

### Product at a glance

#### Features

- Multifacility code support
- Multireader technology support
- PoE enabled
- Auto-addressable
- AES 128 bit data encryption
- HSPD-12/FIPS201 compliant
- UL 294 and UL 294B recognized
- OSDP support
- Universal I/O device characterization



#### Benefits

- Economical
- Network enabled and web configured, providing greater flexibility to installers
- Highly adaptable to a variety of sensors and reader technologies
- Supports Wiegand, clock and data, magnetic stripe, F/2F, supervised F/2F, keypads, LCD, and biometrics end-of-line resistance



Two reader ports support separate in/out readers of all types and technologies, including Wiegand, clock and data, magnetic stripe, F/2F, supervised F/2F, keypads, LCD, and biometrics. Auto-addressable and directly managed by the Mercury intelligent controllers, the AX-MR51e is capable of elaborate processes and procedures without host intervention.

#### Application notes

Built on the Mercury Access Platform, the AX-MR51e will relate the activities of selected system devices to other devices within the system, generating actions and allowing activities to transpire independent of the host. The AX-MR51e's support of paired readers enhances the ability to meet installation challenges, such as placing readers at varying heights or distances to accommodate ingress and egress of handicapped, vehicle, and/or foot traffic. These readers can be logically linked together, yet function independently when access identification is presented to either one. When access rights are granted the same relay will function as programmed to unlock the opening.

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The interface is for use in low-voltage, class 2 circuits only.

Power input	PoE power input 12.95 W, compliant to IEEE 802.3af – OR –10 – 14 Vdc power supply
Power output	12 Vdc @ 700 mA including reader and AUX output
Output	Form-C contacts: K1, K2: 5 A @ 30 Vdc
Inputs	4 supervised, end-of-line resistors, 1k/1k – ohm, 1% 1/4 W watt standard
Reader interface	
Reader power	12 Vdc ±10% (PTC limited 180 mA max)
Reader LED output	TTL compatible, high > 3 V, low < 0.5 V, 5 mA source/sink maximum
Buzzer output	Open collector, 5 Vdc open circuit max. 10 mA sink maximum
Reader data inputs	TTL compatible inputs or 2-wire RS-485
Communication	Ethernet, 10Base-T/100Base-TX

Cable requirements	Power: 18 AWG, 1 twisted pair (non-PoE power)
Alarm inputs	1 twisted pair per input, 30 ohm maximum
Reader data (TTL)	18 AWG, 6 conductors, 500 foot (150 m) maximum
Reader data (RS-485)	24 AWG, 120 ohm impedance, twisted pair with shield, 2000 foot (1,219 m) maximum
Mechanical	
Dimension	5.5" W x 2.75" H, (140 mm W x 70 mm H)
Weight	4.2 oz. (120 g) without bracket
Environment	
Temperature	-67 °F – +185 °F storage, 32 °F – +158 °F operational
Humidity	10 – 95% RHNC
Standards	UL 294 and UL 294B recognized, CE compliant, ROHS, FCC Part 15 Class A, NIST certified encryption