LP Series - AC-MER-CONT-LP1501
PoE+ Edge-capable Intelligent Controller

The Avigilon Access Control Manager (ACM) system supports open field hardware from Mercury Security allowing organizations to leverage investments in non-proprietary field hardware, with retrofit programs available for industry standard multi-device interface panels, power and communication controller boards, and intelligent controllers. The new Authentic Mercury LP Series Intelligent Controllers are Mercury Security’s enhanced platform with an improved processor and increased memory, plus feature an embedded crypto memory chip that provides a secured layer of encryption to onboard sensitive data.

The AC-MER-CONT-LP1501 is an edge-capable intelligent controller that is expandable up to 8 downstream serial input/output modules and up to 16 AC-MER-RIM-MR62E network ready door controllers (for a total of 17 doors/openings). The feature-rich AC-MER-CONT-LP1501 provides a small footprint, cost-effective dual card reader panel for controlling a single opening. Easy installation with Power-over-Ethernet Plus (PoE+) makes the high performance, Ethernet ready AC-MER-CONT-LP1501 a top choice for a single-door controller.

KEY FEATURES

- IP-to-the-Door: Supports PoE+ power, removing the cost of traditional power supplies and home-run wiring
- Enhanced Security: Embedded crypto memory chip and data at rest encryption provides secured layer of protection of sensitive data
- OSDP Protocol: Secure channel communications for reader connectivity
- Host communications protected by TLS 1.2/1.1
- Controller/IO Expansion connection protected by AES (Series 3 SIO)
- Port based network access control using 802.1X
- FIPS 140-2 user of OpenSSL
- Supports multiple card formats, paired and alternate readers, elevator, turnstile and biometric devices
- Anti-passback support (area, reader and time based)
Specifications

TECHNICAL SPECIFICATIONS

Access Control
- 189,486 cardholder capacity
- 50,000 transaction buffer
- Supports total of 1 RS-485 IO protocol
- 16 Cardholder - 19 Digit (64 Bit) User ID with 8 digit PIN MAX Activation/Deactivation

Door Control
- Natively supports for up to 2 readers and 1 opening. Using on-board OSDP; device controls 1 door. When not using on-board OSDP reader, device can expand to support up to 17 readers and openings in total

Power Input
- PoE (12.95 W), compliant to IEEE 802.3af or PoE+ (25 W), compliant to IEEE 802.3at or 12 Vdc +/- 10 %, 1.8 A maximum

Power Output
- PoE: 12 Vdc @ 625 mA including reader and AUX output *
- PoE+ or external 12 Vdc: 12 Vdc @ 1.25 A including reader and AUX output *
- * Excluding micro USB port

Micro USB Port
- 5 Vdc maximum (deduct 270 mA from reader and Auxiliary Power output)

Battery
- SRAM Backup Battery, rechargeable

Host Comm.
- Ethernet: 10-BaseT/100Base-TX

Inputs
- Two unsupervised/supervised, Programmable End-of-Line resistors, 1k/1k ohm, 1 %, ¼ watt standard
- One unsupervised input dedicated for cabinet tamper

Output Relays
- Two relays: Form-C contacts: 2 A @ 30 Vdc, resistive

READER INTERFACE

Reader Power
- 12 Vdc ± 10 %, PoE, PoE+ or local power supply, 300 mA maximum

Data Inputs
- Reader port 1: TTL compatible, F/2F or 2-wire RS-485
- Reader port 2: TTL compatible or F/2F

LED Output
- TTL compatible, high > 3 V, low < 0.5 V, 5 mA source/sink maximum

Buzzer Output
- Open collector, 12 Vdc open circuit maximum, 40 mA sink maximum

CABLE REQUIREMENTS

Power and Relays
- 1 twisted pair, 18 AWG (when using local 12 Vdc power supply)

Ethernet
- CAT-5, minimum

Reader TTL
- 6-conductor, 18 AWG, 500 ft. (152 m) maximum

Reader F/2F
- 4-conductor, 18 AWG, 500 ft. (152 m) maximum

Reader RS-485
- 1 twisted pair, shielded. 24 AWG, 120 ohm impedance, 2000 ft. (610 m) maximum

Alarm Input
- 1 twisted pair per input, 30 ohms maximum

Alarm Output
- As required for the load

ENVIRONMENTAL

Temperature
- -55 to 85 °C storage, 0 to 70 °C operating

Humidity
- 5 to 95% RH-NC

MECHANICAL

Dimensions
- 5.5 in. (140 mm) W x 2.75 in. (70 mm) L x 0.96 in. (24 mm) H without bracket
- 5.5 in. (140 mm) W x 3.63 in. (92 mm) L x 1.33 in. (34 mm) H with bracket

Weight
- 3.6 oz. (103 g) without bracket
- 4.43 oz. (125.5 g) with bracket

COMPLIANCE

Product Compliance
- UL294 Recognized*, FCC Part 15 Class A, CE Compliant, RoHS, NIST Certified Encryption

* For UL, the Power Sourcing Equipment (PSE) such as a PoE or PoE+ enabled network switch and/or PoE or PoE+ power injectors must be UL Listed under UL294B.

Network Switch

To Access Control Manager**

ORDERING INFORMATION

AC-MER-CONT-LP1501
- LP Series - AC-MER-CONT- LP1501 - PoE+ Edge-capable Intelligent Controller

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