Series 3 - MR52
Serial I/O Dual Card Reader Interface panel

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 Mercury Security AC-MER-CONT-MR52 Series 3 from Avigilon is an enhanced, high performance, reliable dual card reader interface panel that offers all the I/O needed for managing two controlled opening with the Access Control Manager system. It offers an improved processor and increased memory with an embedded crypto memory chip for encryption support – enabling organizations to stay ahead of internal and external threats to achieve data security.

Each AC-MER-CONT-MR52 will interface two card readers, eight general-purpose input monitor points and six control relays to provide access control and security monitoring through the AC-MER-CONT-1DR, AC-MERCONT-2DR or the AC-MER-CONT-64DR intelligent controllers. The result is the flexibility, versatility and reliability required for demanding access control solutions.

The Access Control Manager system and Mercury Security Series 3 open field hardware provides the ultimate platform to complete the Avigilon physical access control security solution.

Open Architecture: High performance, reliable platform enables use of hardware with the Access Control Manager system

OSDP Protocol: Supports OSDP and Secure Channel protocol for device connectivity, file transfer and extended applications such as biometrics and federal government profile support

Enhanced Security: Embedded crypto memory chip provides secured layer of encryption to protect sensitive data

Versatile Interoperability: Same reliable interface and identical footprint as the Series 2 Mercury IO modules enabling seamless upgrades for existing deployments

KEY FEATURES

AES 128/256 bit data encryption for optimal data protection

Compact footprint and RS-485 connectivity

Affordable solution for applications requiring two-reader doors

Onboard I/Os provide auxiliary point control and monitoring

12 or 24 V DC input power support

Offline reader access mode support

12 V DC reader support with 24 V DC power source

Interfaces with a wide array of reader technologies including Wiegand, clock and data, magnetic stripe and keypads

Supports being clustered or distributed to best suit the installation environment

Input and output relays support assignment to door related functions or to general purpose I/O

Inputs support normally open, normally closed, supervised and non-supervised circuits

Output relays are configurable for fail-safe or fail secure operation

APPLICATION NOTES

The inputs and the relays may be assigned to door-related functions or to general-purpose I/O. The inputs support normally open, normally closed, supervised, and non-supervised circuits. End-of-line (EOL) resistance values are configurable, and the relays can be configured for fail-safe or fail-secure operation.

When connected to an authentic Mercury intelligent controller, the AC-MER-CONT-MR52 can relate the activities of selected system devices to other devices within the system, generating actions and allowing activities to occur independent of the host. The AC-MER-CONT-MR52 can also locally process access requests based on facility code verification, even when disconnected from an intelligent controller. Up to eight facility codes may be active in each AC-MER-CONT-MR52.

Specifications

TECHNICAL SPECIFICATIONS		
	Primary Power	12-24 Vdc +/- 10%, 550mA maximum
	Host Communication	RS–485, 2-wire, 4,000' (twisted pair with shield, Belden 9841)
	Reader Port	2 Reader Ports*
	Card/Keypad Data	OSDP, Clock/Data, Data–1/Data–0, RS-485, or F/2F
	Keypad	8-bit Mercury, 8-bit Dorado/HID, 4-bit HID
	Reader Power	Pass-through or 12 Vdc regulated 300mA each reader
	LED	One-wire bi-color LED or two-wire LED
	Buzzer	Only with 'one-wire' LED
	Inputs	8 General Purpose: Programmable circuit type 2 Dedicated: Tamper and Power Monitor
	Output Relays	Six Form-C Relays: Normally open contact (NO): 5A @ 30 Vdc resistive Normally closed contact (NC): 3A @ 30 Vdc resistive
	Dimensions	6.0' W x 8.0' L x 1.0' H (152mm W x 203mm L x 25mm H)
	Temperature	0-70 °C operational, -55-85 °C storage
	Humidity	5 to 95% RHNC
	Standards	UL 294 recognized, CE compliant, RoHS, FCC Part 15 Subpart B

*Note: Up to two entry/exit door applications (4 readers total) can be supported when connected to OSDP readers.

ORDERING INFORMATION		
	AC-MER-CONT-MR52	2-Reader Interface Module - (2 reader: mag or wiegand, 8 inputs, 6 relays) (Mercury MR52-S3)

Jun 2018 — Rev 2