RS2 Technologies
Access Control Solutions

MR-16OUT-S3

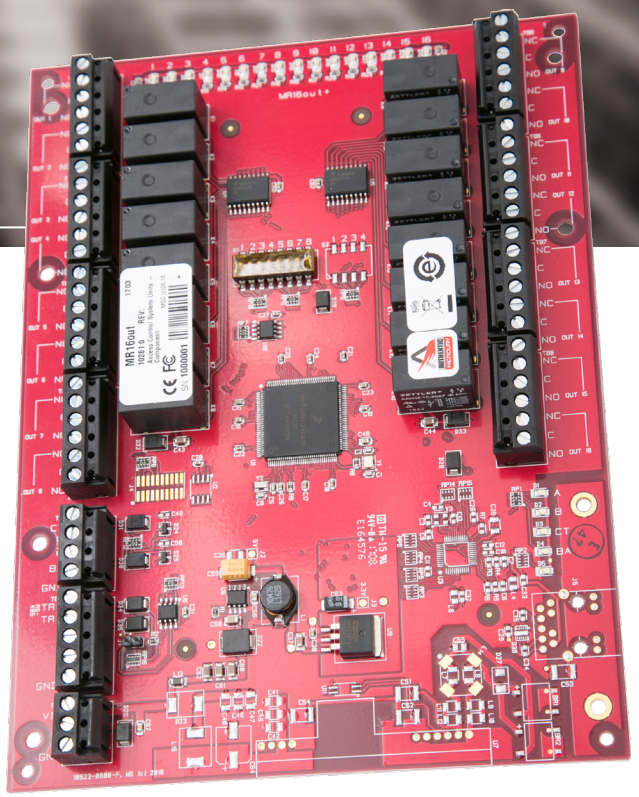
MR-16OUT-S3 Subpanel

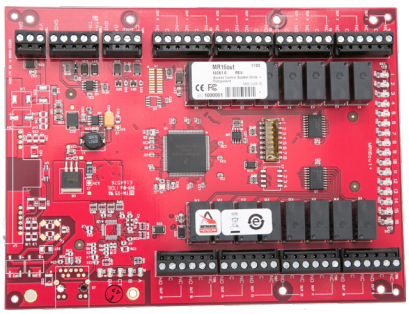
The MR-16OUT-S3 SIO contains sixteen general-purpose outputs (as Form C relay contacts). The MR-16OUT-S3 can be configured to control a variety of outboard devices for general utility and control. The MR-16OUT-S3 is commonly used for control of devices such as lighting, heating/cooling, door hardware, basic elevator control applications, and audible sirens.

The MR-16OUT-S3 allows for a simplified control of external devices and system automation. Devices can be activated or deactivated by the condition of selected system devices locally or regionally without host intervention. The MR-16OUT offers unmatched power and flexibility to expand the range of devices and building controls that are part of an access control system design. The 16 Form C relay contacts allow for control of numerous clustered devices in a centralized manner.

The MR-16OUT-S3 provides individually configurable parameters to be set for timing and for fail-safe or fail-secure modes. Relay operation may be initiated by direct operator commands, by time schedules, or by event-based processes (tasks) stored in the local SCP or from host automation. Relays support “On”, “Off”, “Pulse”, and “Repeating Pulse” commands.

The Mercury Security platform continues to focus on data security. The MR-16OUT-S3 subpanel provides supports secure communication between the controller board and the MR-16OUT-S3 using AES-128/256 over the RS-485 bus communications ensuring that data in transit remains secure. Onboard, the MR-16OUT-S3 contains an embedded cryptographic memory chip. This memory chip stores important data, such as communication encryption keys, in a secure location ensuring data remains secure while at rest.





The MR-16OUT-S3 is a multi-device interface panel that can interface a high concentration of outputs.

Platinum Elite MERCURY

CE

RoHS compliant

The MR-16OUT-S3 includes these features:

- 16 Form-C Relays with configurable parameters for fail-safe or fail-secure configurations
- 2 dedicated tamper and power monitor inputs
- Same footprint and interface as the Series 2 MR-16OUT subpanel
- 2 dedicated tamper and power monitor inputs
- Basic elevator control capabilities
- Simplified integration with lighting, audio devices, heating and cooling
- Embedded cryptographic memory chip ensures all local data remains secured while at rest
- SCP communication secured using TLS 1.1/1.2 and AES-128/256 bit data encryption
- Programmable task logic enabled automated control of external devices
- Universal I/O device characterization
- UL 294, CE, RoHS Compliant

RS2 Technologies

RS2 Technologies has constructed an integrated family of access management software and hardware that can be configured to provide a cost-effective solution for very small to very large systems. The LP series of hardware relies on open architecture to maximize freedom for users, control costs, and allow for interoperability via integration to provide the most complete solution from a platform trusted worldwide.

RS2 Technologies
Access Control Solutions

MR-16OUT-S3

Technical Specifications	
Power	
Primary Power	12 to 24 Vdc +/- 10% 1100 mA maximum
Communication	
SCP Communication	RS-485 2-Wire AES-128/256 Encryption Addressable between addresses 0-31
Panel Specifications	
Inputs	2 Dedicated Tamper and Power Monitor
Outputs	16 Auxiliary Form-C Relays NC 3 A @ 30 Vdc, resistive NO 5 A @ 30 Vdc, resistive
Standards	UL 294, CE, RoHS

Technical Specifications	
Cabling	
Power & Relays	1 Twisted Pair - 18 to 16 AWG
SIO RS-485	1 Twisted Pair with Drain Wire and Shield, 120 Ohm Impedance, 24 AWG, 4,000 Foot Maximum
Physical Specifications	
Dimensions	6.0 in. (152 mm) W x 8.0 in. (203 mm) L x 1.0 in. (25 mm)
Humidity	5 to 85% RHNC
Temperature	-55 to +85 °C Storage 0 to +49 °C Operating
Weight	9 oz