

## Mercury MR16OUT Serial I/O Controller

Authentic Mercury MR serial Input/output (SIO) devices represent the secondary level in Mercury's distributed architecture. The multi-device MR16OUT interface panel is dedicated to point control and monitoring, providing 16 general purpose outputs as Form C relay contacts. The MR16OUT also provides individually configurable parameters that can be set for timing and for fail-safe versus fail-secure modes.

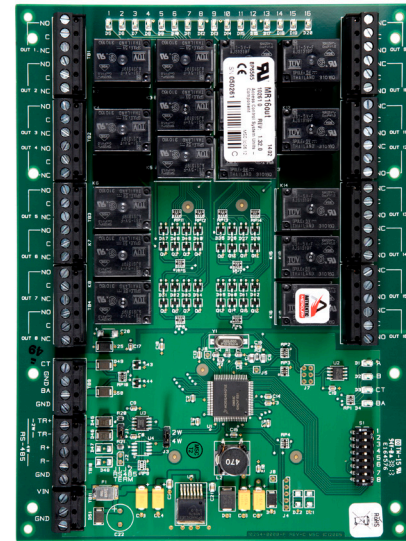
Relay operation can be initiated by direct operator commands, by time schedules, or by event-based procedures. The relays support "On," "Off," "Pulse," and "Repeating Pulse" commands. A pulse can range from 0.1 seconds to over 18 hours.

The MR16OUT is configurable to control a variety of outboard devices for general facility control such as lighting, heating/cooling, door and elevator control. Devices can also be activated by the condition of selected system devices, either locally or regionally, without host intervention.

The MR16OUT is an ideal choice for a multi-device interface panel that provides the ability to control high concentrations of outputs.

### Application Notes

The MR16OUT is an essential component to support Mercury's flexible, building-block approach to access control system design. The versatile MR16OUT offers unmatched power to broaden the range of devices and building controls (such as lighting or HVAC) that can be included in system design.



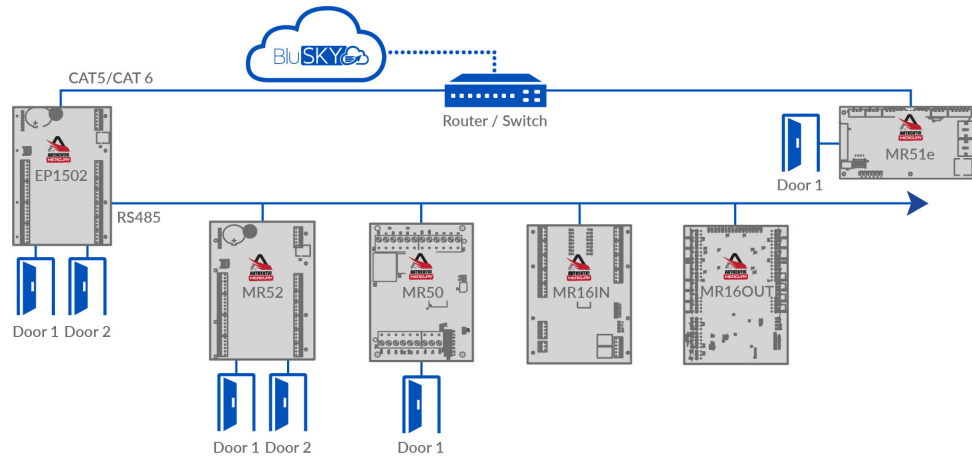
### Features

- Multi-facility code support
- Multi-reader technology support
- PoE enabled
- Auto-addressable
- AES 128 bit data encryption
- UL 294 and UL 294B Recognized
- OSDP support
- Universal I/O device characterization

### Benefits

- Built-in capacity to control and respond to external device commands
- Easily integrates lighting, heating/cooling, door or elevator control systems
- Initiates commands by operator, by time schedules, or by events
- Allows the clustering of up to 16 uniquely monitored devices easily and compactly

## System Diagram



## Specifications

## Electrical

## Primary Power:

12-24 VDC +/- 10%, 1100 mA maximum  
 12VDC @ 850mA nominal  
 24VDC @ 450mA nominal

## Communication:

RS-485, 2-wire, 4,000'  
 (twisted pair with shield, Belden 9841)

## Inputs:

2 Dedicated: Tamper and Power Monitor

## Outputs:

16 Relays: Form-C, 5 Amp 28VDC

## Dimensions:

6.0' W x 8.0' L x 1.0' H,  
 (152mm W x 203mm L x 25mm H)

## Temperature:

-40–75 °C operational, -55–85 °C storage

## Humidity:

0 to 95% RHNC

## Standards:

UL 294 recognized  
 CE compliant  
 RoHS

## Ordering Information

MFG Part #	BluBØX Order #	Description
MR16OUT	120-2200	Mercury - MR16OUT 16 Programmable Form C Relays 12/24VDCV

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