

Mercury MR16IN Serial I/O Controller

Authentic Mercury MR serial Input/output (SIO) devices represent the secondary level in Mercury's distributed architecture. The devices offer flexibility, ensuring they can choose the controller that best fits their needs.

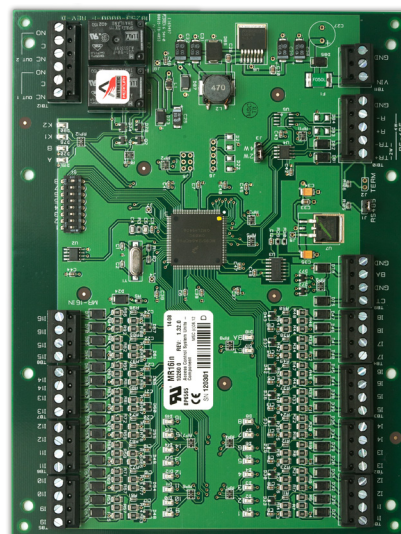
The multi-device MR16IN interface panel is dedicated to point control and monitoring and enables to support 16 general-purpose input circuits. The circuits can be individually set for sensitivity ranges, timing parameters (normally-open or normally-closed operations) and end-of-line resistance values. They can also be declared supervised and non-supervised. Two programmable relay outputs are configurable for fail-safe or fail secure operation, supporting "On," "Off", "Pulse", and "Repeating Pulse" commands.

With these powerful control-point capacities onboard, the MR16IN can control outboard devices; it can also be activated by the condition of selected system devices, either locally or regionally, without host intervention.

The MR16IN is an ideal choice for an interface panel that provides the ability to monitor high concentrations of inputs combined with low requirements for output control.

Application Notes

The Mercury MR16IN is an essential component that supports Mercury's flexible, building-block approach to access control system design. The MR16IN provides the capacity to link, control and respond to an array of sensors. With its RS-485 connectivity, the MR16IN can be clustered or distributed to best suit each installation environment.



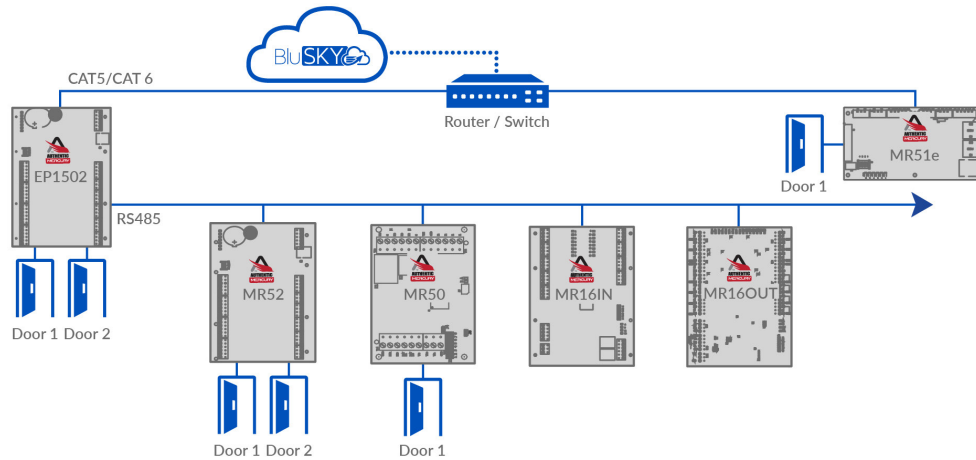
Features

- 16 programmable inputs; 2 programmable relay outputs
- 2-wire RS-485 communication
- AES 128 bit data encryption
- Universal I/O device characterization
- Configurable input parameters
- Universal system compatibility with Authentic Mercury intelligent controllers

Benefits

- Initiates commands by operator, by time schedules, or by events
- Allows for easy and compact clustering of up to 16 uniquely monitored devices

System Diagram



Specifications

Electrical

Primary Power:

12-24 VDC +/- 10%,
 350 mA maximum
 12VDC @ 300mA nominal
 24VDC @ 220mA nominal

Communication:

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

Inputs:

16 General purpose: programmable circuit type 2 Dedicated:
 Tamper and Power Monitor

Outputs:

2 Relays: Form-C, 5 Amp 28 VDC

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:

0 to 95% RHNC

Standards:

UL 294 recognized
 CE compliant
 RoHS

Ordering Information

MFG Part #	BluBØX Order #	Description
MR16IN	120-2100	Mercury - MR16in 16 Programmable Inputs & 2 Prog Form C Relays 12/24VDC

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