MERCURY SECURITY™

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

The MR50 is an economical single card reader interface panel dedicated to individual door oversight and provides of all the I/O needed for controlling a single door. Each MR50 connects one card reader, two general-purpose input monitor points and two control relays for access control and security monitoring through an Authentic Mercury EP intelligent controller.

The panel is easy to install and supports Wiegand, clock and data, magnetic stripe, F2F, Supervised F2F, OSDP, keypad and biometrics reader technologies. With its compact footprint and RS-485 connectivity, the MR50 can be clustered or distributed depending on the installation environment.

An ideal choice for a compact and economical single-card reader panel, the high-performance MR50 is a versatile, reliable interface for an individual door.

Application Notes

The inputs and the relays can 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.

Hardware interface and card format settings are loaded through software commands.

When connected to a Mercury EP intelligent controller, the MR50 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 MR50 can also locally process access requests based on facility code verification, even disconnected from an intelligent controller. Up to eight facility codes may be active in each MR50.

Features

- Multi-facility code and reader technology support
- AES 128 bit data encryption
- HSPD-12/FIPS201 Compliant
- UL 294 Recognized
- Universal I/O device characterization

Benefits

- Easily connects to Mercury's intelligent controllers
- Provides all I/O needed for single door control
- Small footprint for versatility
- Supports Wiegand, clock and data, magnetic stripe, F2F, Supervised F2F, OSDP, keypad and biometrics reader technologies

Electrical:

Primary Power: 12-24 Vdc +/- 10%,
150mA maximum
12Vdc @ 110mA nominal
24Vdc @ 60mA nominal

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

Reader Port: 1
Power: Input voltage pass- through
Data Card/Keypad Clock/Data, Data–1/
Data–0, or RS-485

LED: One-wire, or two-wire bi-color LED support

Buzzer: Only with 'one-wire' LED

Inputs:

2 General purpose: programmable circuit type
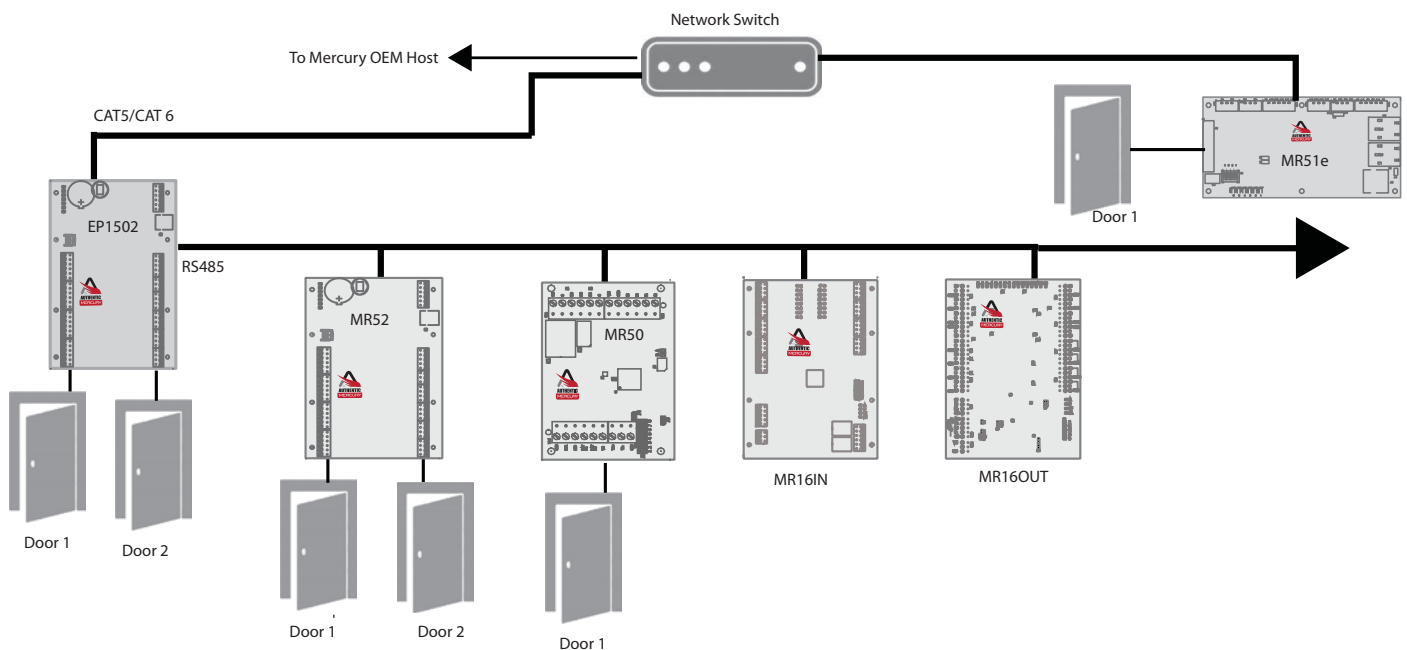**1 Dedicated:**   Tamper

Output Relays: Relay 1: Form–C, 5 Amp 30 Vdc
Relay 2: Form–C, 1 Amp 30 Vdc

Dimensions: 2.75" L x 4.25" W x 1.0" H,
(70mm L x 108mm W x 25.4mm H)

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

Humidity: 0 to 95% RHNC

Standards: UL 294 recognized
CE compliant
RoHS

Network Switch

To Mercury OEM Host

CAT5/CAT 6

MR51e

Door 1

EP1502

RS485

MR52

MR50

MR16IN

MR16OUT

Door 1

Door 2

Door 1

Door 2

Door 1

The Authentic Mercury open platform delivers quality assurance derived from the most proven and reliable hardware in the industry. Driven by our engineering excellence and technology leadership. Authentic Mercury hardware is designed as an access control platform that easily encompasses emerging technologies, changing industry standards and evolving system environments. Make yours Authentic, Make sure its Merc.