## Mercury MR52 Serial I/O Controller

Authentic Mercury MR serial Input/output (SIO) devices represent the secondary level in Mercury's distributed architecture. The MR52 is a dual-card reader interface panel with on-board flexibility to connect to a wide range of security devices. The economical MR52 is easy to install and provides the necessary I/O for controlling two doors with auxiliary point control and monitoring – all in a single device.

Each high-performance unit can connect two card readers, eight general-purpose input monitor points and six control relays to any Authentic Mercury EP series intelligent controller.
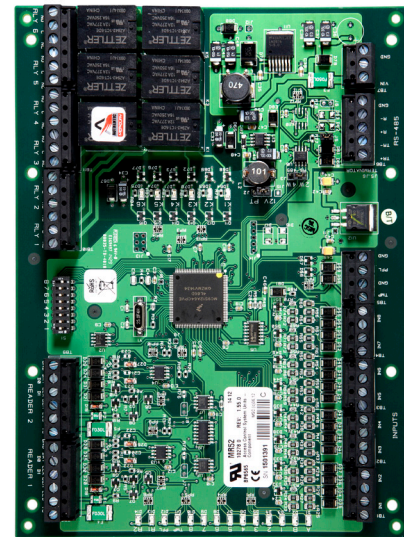
With two-wire RS-485 connectivity, the MR52's two reader ports support OSDP, Wiegand, RS-485, and magnetic stripe readers. Keypads and integrated keypad readers are also supported. Hardware interface and card format settings are loaded through software commands.

The MR52 is an ideal choice for a versatile and reliable interface panel for two doors.

## 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. The relays can be configured for fail-safe or fail secure operation.

When connected to an Authentic Mercury EP intelligent controller, the 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 MR52 can also locally process access requests based on facility code verification, even when disconnected from an intelligent controller. Several facility codes may be active in each MR52.
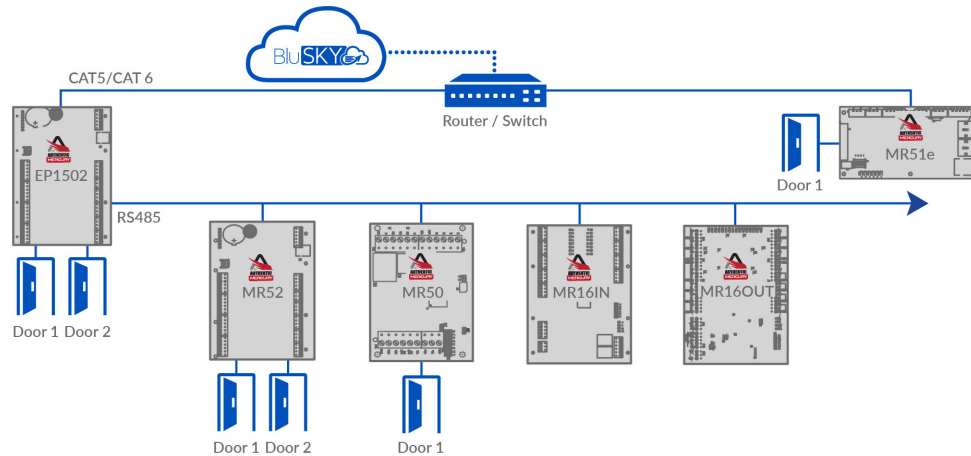
## Features

- Multi-facility code and reader technology support
- AES 128 bit data encryption
- Configurable auxiliary point control and monitoring
- UL 294 recognized
- Universal I/O device characterization

## Benefits

- Affordable flexibility
- Reliably support a wide variety of sensors and control technologies
- Easy to install
- Supports OSDP, Wiegand, RS-485, magnetic stripe and keypads

## System Diagram



## Specifications

**Primary Power:**
12-24 VDC +/- 10%, 550mA maximum
12Vdc @ 450mA nominal
24Vdc @ 270mA nominal

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

**Reader Ports:**
2 Reader Ports

**Power:**
12 VDC regulated, 125mA each reader
Data Card/Keypad Clock/Data, Data–1/Data–0,
or RS-485

**Keypad:** 8-bit Mercury, 8-bit Dorado, 4-bit HID
**LED:** One-wire bi-color LED support, or two-wire
**Buzzer:** Only with 'one-wire' LED

**Inputs:**
8 General purpose: Programmable circuit type
2 Dedicated: Tamper and Power Monitor

**Outputs:** 6 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 |
|---|---|---|
| MR52 | 120-2500 | Mercury - MR52 Two Door Controller & Auxiliary I/O12/24VDC |

BluBØX Security, Inc. is a manufacturer and service provider of web-cloud based physical security products. Its BluSKY service delivers enterprise class unified access control, alarm management, video surveillance, biometrics and visitor management on any device, anywhere, any time. Its BluCHIP open hardware platform provides industry standard components and a proprietary line of fully integrated multi-factor, multi-biometric Person Readers.