



Mercury's MR52 is a low cost, high-performance device that provides all the I/O needed for controlling two doors with auxiliary point control and monitoring. Each unit will interface two card readers and provide out-board flexibility to connect a Mercury intelligent controller to an OEM system network. The MR52 will interface 2 card readers, 8 general purpose input monitor points and 6 control relays to a Mercury EP series intelligent controller.

With two-wire RS-485 connectivity, the MR52's two reader ports support magnetic stripe, Wiegand and RS-485 readers. Keypads and integrated keypad readers are also supported. Hardware interface and card format settings are loaded through software commands.

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. End-of-line (EOL) resistance values are configurable. The relays can be configured for fail safe or fail secure operation.

Application Notes

The MR52 is a versatile and reliable component for two doors. When connected to a Mercury EP intelligent controller, the MR52 passes access requests and status change information to the controller, processing data and activities from selected system devices to other devices in the network, generating actions and activities as they transpire, independent of the host computer. Even when not connected to an intelligent controller, the MR52 is capable of locally processing access requests based on facility code verification. Several facility codes may be active in each MR52.

Benefits

- Affordable flexibility to add 2 doors
- Supports external OEM network connectivity
- Reliably support a wide variety of sensors and control technologies
- Easy to install

Features

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

Proven Platforms for the Future
Reliable. Proven. Innovative Access Control.

Technical 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:

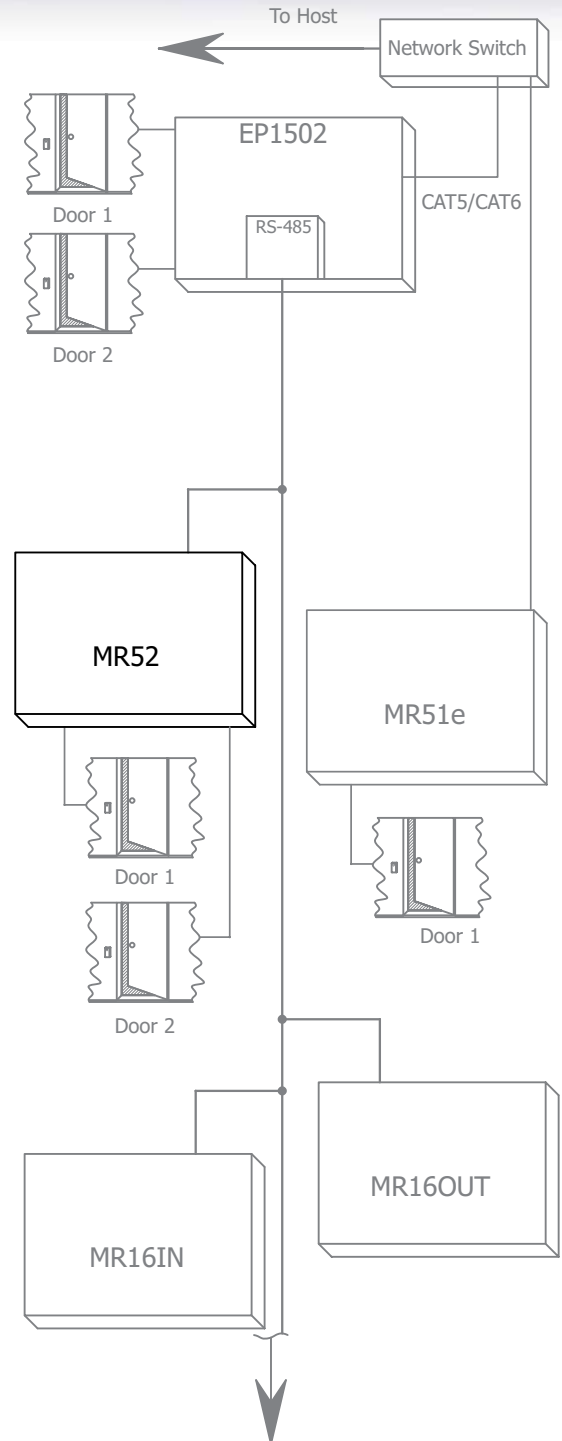
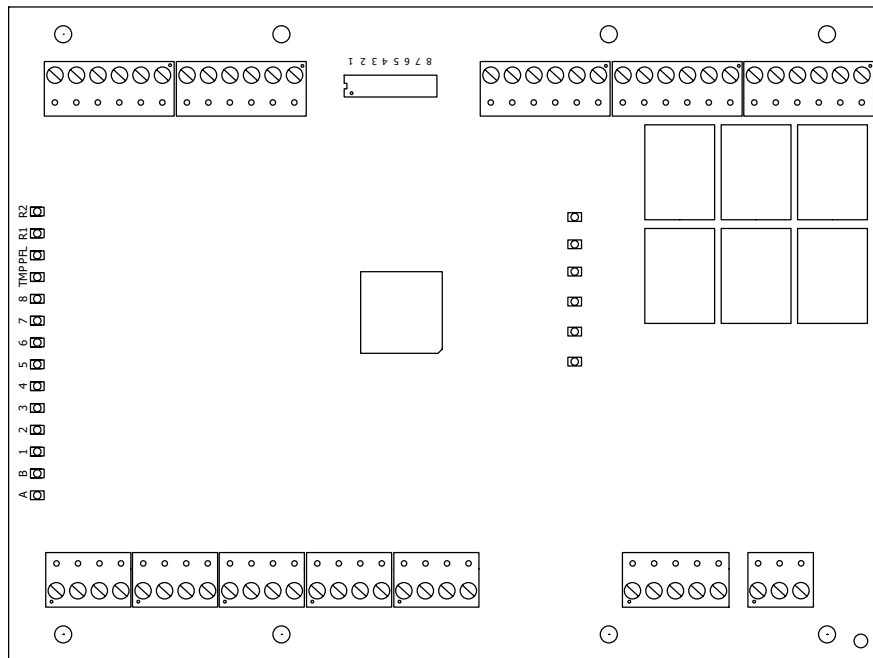
0—70 °C operational, -55—85 °C storage

Humidity:

0 to 95% RHNC

Standards:

UL 294 recognized, CE compliant, RoHS


For More Information:

Mercury Security Corporation
 2355 Mira Mar Avenue
 Long Beach, CA 90815-1755
 Tel: 562.986.9105 Fax: 562.986.9205
 www.mercury-security.com