

**Benefits:**

- Flexible, versatile support of paired readers
- Network ready
- Easily installed, applied to a wide range of reader technologies

Features:

- Multi- facility code support
- Multi-reader technology support
- PoE enabled
- Auto-addressable
- AES 128 bit data encryption
- HSPD-12/FIPS201Compliant
- UL 294 Recognized
- Universal I/O device characterization
- OSDP support

Mercury's Access Platform - MR51e is a network connected, single-door, POE capable interface panel that provides an ideal integration solution when a network connection to the door is desired.

Two reader ports support separate in/out readers of all types and technologies, including Wiegand, clock and data, magnetic stripe, keypads, LCD and biometrics. Auto-addressable and directly managed by the Mercury intelligent controllers, the MR51e is capable of elaborate processes and procedures without host intervention.

Application Notes

Built on the Mercury Access Platform, the MR51e will relate the activities of selected system devices to other devices within the system, generating actions and allowing activities to transpire independent of the host.

The MR51e's support of paired readers enhances the ability to meet installation challenges, such as placing readers at varying heights or distances to accommodate ingress and egress of handicapped, vehicle and/or foot traffic. These readers can be logically linked together, yet function independently when access identification is presented to either one. When access rights are granted the same relay will function as programmed to unlock the opening.

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

The interface is for use in low voltage, class 2 circuits only.

Power Input:

PoE Power Input 12.95W, compliant to IEEE 802.3af - OR --10 - 14Vdc Power Supply

Power Output:

12Vdc @ 700mA including reader and AUX output

Output: Form-C contacts: K1, K2:
5A @ 28Vdc

Inputs: 4 supervised, End of Line resistors,
1k/1k - ohm, 1% 1/4W watt standard

Reader Interface:

Reader Power: 12 Vdc±10% or pass through.
(PTC limited 150mA max)

Reader LED Output: TTL compatible, high > 3V,
low < 0.5V, 5mA source/sink maximum

Buzzer Output: Open collector, 5Vdc open circuit maximum,
10mA sink maximum

Reader Data Inputs: TTL compatible inputs or
2-wire RS-485

Communication:

Ethernet, 10Base-T/100Base-TX

Cable Requirements:

Power: 18AWG, 1 twisted pair
RS-485: 24AWG, 120-ohm impedance,
twisted pair with shield,
4000-foot (1,219 m) maximum

Alarm Inputs: 1 twisted pair per input,
30-ohm maximum

Reader data (TTL): 18AWG, 6 conductors, 500-foot
(150 m) maximum

Reader data (RS-485): 24AWG, 120-ohm impedance,
twisted pair with shield, 2000-foot
(1,219 m) maximum

Mechanical:

Dimension: 5.5" (140mm)W x 2.75" (70mm)
Weight: 4.2 oz. (120g) without bracket

Environment:

Temperature: -55°C to +85°C, storage
0°C to +70°C, operating
Humidity: 10% to 95% RHNC

Standards:

UL294 Recognized, CE Compliant, ROHS,
FCC Part 15 Class A, NIST Certified Encryption

