

MR10/MR20



Features

- ▶ Bi-color LED and annunciation
- ▶ Ruggedized metal housing
- ▶ Multi-track reading
- ▶ Multi-format programmability
- ▶ Static discharge protection
- ▶ Self Test
- ▶ 2 Year Warranty
- ▶ UL 294 listed

Benefits

- ▶ Field-proven reliability in even harshest environments
- ▶ Compatible with practically any access control panel

The **Access Platforms MR10 and MR20**

provide a reader interface for low power, multi-track, multi-format, ruggedized, indoor/outdoor, high performance access control. Both units are capable of supporting variable bit patterns in Wiegand or clock and data, making them compatible with a wide range of access control panels. Both also feature bi-color visual indicators and variable annunciation. With attractive die cast metal housing, both units are suitable for a broad range of environments.

The MR10 reader offers a basic magnetic card stripe interface, accepting low or high-coercivity magnetic stripe cards with standard track 2 encoding. Track 1 and track 3 versions are also available. Suitable for any setting, the MR20 differs from the MR10 in that it incorporates a 12-position membrane keypad. All signal lines are protected from Electrostatic Discharge (ESD). The nominal distance between the reader and the controller is 500 feet.

Application Notes

While Mercury controllers empower OEMs to configure systems that deploy a range of access technologies, our field proven card readers and keypad interfaces simplify their sourcing of additional hardware components. Essential, flexible components, the MR10 and MR20 are distributor and OEM-ready readers built to provide years of reliable service in the most demanding applications.

MR10/MR20

Technical Specifications

Card:

Encoding: 75 BPI, Aiken Biphase (2F2)
Read Speed: 3 to 50 inches per second

Mechanical:

Case: Aluminum alloy

Finish: gray or black powder coat

Dimensions: 1.95"W x 1.30"H x 5.50"L
[50mm x 33mm x 140mm]

Weight: 10 oz [285g], nominal

Mounting: One security screw

Connection: 6 conductor cable
w/connector

Electrical:

Voltage: +5Vdc or +12Vdc

Current: 20 milliamperes typical

Wiring: 500 ft. (150m) maximum

Data Output: data 1/data 0 (Wiegand pulses), or clock and data (magnetic)

Annunciators:

LEDs: Upper: red Lower: green

LED control Single line Buzzer

Keypad:

Layout: 12-position, membrane type

Feedback: Audible and visual

Data Interface: Multiplexed on data pins

Environmental:

Operating Temperature: -40°C to +75°C

Humidity 95%
(weatherized option) 100%

Standards:

UL 294 Listed, CE compliant, RoHS

Optional Accessories:

WS-10 Weather shield

WP-10 Single-gang Wall-plate

WP-20 Double-gang Wall-plate



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.