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. Track1 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.

Benefits

■ Field-proven reliability in even harshest environments

■ Compatible with practically any access control panel

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

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

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:	+5 Vdc or +12 Vdc
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 interface:

Layout:	12-position, membrane type
Feedback:	Audio 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