



### Features

- ▶ Bi-color LED and annunciation
- ▶ Ruggedized metal housing
- ▶ Multi-track reading
- ▶ Multi-format programmability
- ▶ Static discharge protection
- ▶ Self Test
- ▶ 12 position piezo-electric keypad
- ▶ 2 year warranty

### Benefits

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

The **Access Platform BR20** is a keypad-enabled magnetic stripe card reader for OEMs that provides a multi-track, multi-format, ruggedized, indoor/outdoor high security access device.

The Mercury BR20's die cast metal housing incorporates a solid state, piezo-electric keypad for a wide environmental operating range, making it suitable for nearly any setting.

Capable of supporting variable bit patterns in either Wiegand or clock and data, the BR20 also provides bi-color visual indicators with audible feedback on key selection. The LED and the audible annunciators are controlled using standard TTL voltage levels. The card reader accepts low or high-coercivity magnetic stripe cards with standard track 2 encoding. Track 1 and track 3 versions are also available. A one million pass read head is standard. The keypad's EVERSWITCH technology provides a solid state, piezo-electric switch for maximum reliability and durability.

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 the sourcing of additional hardware components. A rugged, reliable reader interface in Mercury's building block approach to system configuration, the BR20 is rated for a wide range of environmental operation, suitable for indoor and outdoor use. The reader is brushed aluminum with anodized markings and is mounted with all stainless steel hardware.

**Technical Specifications****Card:**

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

**Mechanical:**

Case: Aluminum alloy 6061

Finish: Brushed, anodized markings

Size: 2.59"W x 1.30"H x 5.5"L  
[66 mm x 33 mm x 140 mm]

Weight: 9 oz. [260g]

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: Red & Green

LED control: 1 wire or 2 wire Buzzer

**Keypad:**

Layout: 12-position, solid state

Feedback: Audible and visual

Data Interface: Multiplexed on data pins

**Environmental:**

Operating Temperature: -40°C to +75°C

Humidity 95%  
(weatherized option) 100%

**Standards:**

CE compliant, RoHS



**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.