



# MR Series™

## Magnetic Stripe Readers



THE MR SERIES FROM INDALA BRINGS SUPERIOR MAGNETO-RESISTIVE READ-HEAD TECHNOLOGY TO THE SECURITY INDUSTRY. THIS MAGNETIC READER HEAD TECHNOLOGY, WHICH IS WIDELY EMPLOYED IN THE READING OF INFORMATION FROM HIGH-DENSITY MAGNETIC DISK DRIVES, HAS PROVEN IDEAL FOR EVEN THE MOST DEMANDING ACCESS CONTROL CARD READER APPLICATIONS.

### FEATURES

- Proven and reliable technology
- Reads ISO Track 2 Magnetic Stripe-encoded information
- Low power consumption, 45mA typical
- Serial, Clock & Data, and Wiegand formats supported
- Custom formats and outputs available in all versions
- Range of colors and finishes available
- 5VDC or 12VDC versions available
- Suitable for both internal and external use
- Built-in heater for harsh environments
- Waterproof design for harsh environments
- Industry-best 5-Year Warranty

#### Installation Ease

The Indala MR Series rugged swipe card readers are encased in a strong external metal housing and configured to read ISO Track 2 of a magnetic stripe card. The readers incorporate state-of-the-art heated magneto-resistive read heads, LED indication, and fully encapsulated electronics to allow operation in harsh environments. Each unit is housed in a tough die-cast metal cover with front fixing points and is available in many finishes. Fixing screws and screw blanking plugs are provided.

#### Technical Flexibility

Sealed magneto-resistive elements are further protected by the addition of a durable over-strate, typically glass. The resulting read head longevity, >1,000,000 swipes per head, is further complemented by the integral heating element, which serves to extend the typical operating temperature range to below 14°F (-10°C).

Whatever the application; Access Control, EPoS, Ticketing or PC-Logon, when the requirement is a durable and reliable magnetic stripe reader solution with flexibility to suit your specific needs, the Indala MR Series of magnetic stripe readers should be your first choice.

#### Ordering Information

- MR5000 Magnetic Stripe External Card Readers
- MR2000 Magnetic Stripe Line Powered Readers

#### Guaranteed Quality and Reliability

As a proven leader in access control, you are assured of superior quality, customer care, and fast delivery—standard. Plus the Indala MR Series also comes with an industry-leading 5-year warranty.

## SPECIFICATIONS

Description	Specifications	
Size	All Readers	4.52" H X 1.8"W X 1.56"T (11.3 cm X 4.5 cm X 3.9 cm)
Weight	5xxx Series	Approximately 1.14 lbs (409 grams) including cable
	2xxx Series	Approximately 4.72 ounces (122 grams) including cable
Supply Voltage	51xx Series	4.5 - 5.5 VDC (Linear power supply recommended)
	56xx Series	6.0 - 18.0 VDC (Linear power supply recommended)
	2xxx Series	RS232 Line Powered
Typical Current Draw	51xx Series	40 - 50 mA @ 5 VDC
	56xx Series	40 - 50 mA @ 12 VDC
	2xxx Series	>5 mA over RS232 Line
Operating Temperature	All Readers	14°F to 131°F (-10°C to 55°C)
Read Head	5xxx Series	Magnetoresistive (heated)
	2xxx Series	Magnetoresistive
Operating Humidity	All Readers	5 - 95% relative humidity non-condensing
LED Indicator	Bi-color standard (red, green) or Tri-color standard (red, amber, green) (see product descriptions below)	
Cable Length	5xxx Series	18 inches (46 cm)
	2xxx Series	3 feet (1 m) unscreened
Cable Distance	Wiegand = 500 feet (150 m) / ABA Track 2 = 500 feet (150 m) / RS232 = 3 feet (1 m) Recommended cable is 22 AWG BELDON 9537 7-conductor minimum stranded with overall shield or equivalent. Additional conductors may be required for connection of all outputs	

## READERS

Product Description		Part Number
5000 Series	5 Volt – 2 Color LED – Black (Internal & External)	MR51T2B
	5 Volt – 2 Color LED – Chrome (Internal & External)	MR51T2C
	5 Volt – 3 Color LED – Black (Internal & External)	MR5132B
	12 Volt – 2 Color LED – Black (Internal & External)	MR56T2B
2000 Series	Line Powered RS232 – 2 Color LED – Ivory (Internal only)	MR2320B

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### WARRANTY

Indala warrants this product against defects in material and workmanship under normal use and service. The warranty period commences with the date of shipment. See complete warranty statement for further details. Indala reserves the right to discontinue any product without notice.

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