

# MR1000 Series

## Mini Magnetic Stripe Readers



- Small size perfect for POS and desktop applications
- Easy, GUI-based programming
- Dimensions and screw holes compatible with MagTek Mini swipe card reader
- Built-in decoder reads all combinations of tracks 1, 2 and 3
- Stainless steel card guide for extra smooth swipe
- Bi-directional reading head that lasts > 1 million swipes
- Two color LED and programmable beep indicate good/bad read
- Supports wide range of reading speeds
- Supports USB, PS/2 and RS232C interfaces
- Operates with or without keyboard attached
- Avoids transmission errors due to bus contention

### Fits Almost Anywhere

The MR1000 Series MSR is only 100mm long and can fit almost anywhere, making it ideal for POS and desktop applications. Whether it is used stand alone or attached to a monitor, touchscreen or all-in-one unit, the MR1000 provides the functionality needed with an extremely small form factor.

### Easily Programmable

The MR1000 Series MSR is easily programmable through the programming utility's intuitive graphical user interface. By simply clicking on buttons and entering parameters, an integrator can easily set up the MR1000 for use with a minimal investment in time and training. It is easy to enable/disable tracks, change start and stop sentinels, and add prefixes, field terminators and suffixes. A built-in decoder reads all combinations of tracks 1, 2 and 3. The MR1000 Series MSR also supports a wide range of reading speeds and includes special firmware to avoid transmission errors due to bus contention.

### Reliable and Low Cost

The MR1000 Series MSR is both extremely reliable and affordable. It uses the latest technology that provides reliability and speed that is superior to other products. The reading head lasts longer than 1 million cycles and can read with a swipe made in either direction. A dual color LED light and a programmable beep indicate a good or bad read. A stainless steel card guide is used for an extra smooth swipe. All units also receive full functional and quality control testing before leaving Logic Controls facilities. Best of all, this high quality unit is available at a price that easily fits into any budget.



Programming through graphical user interface saves time & money.

# MR1000 SERIES MAGNETIC STRIPE READER SPECIFICATIONS

## MECHANICAL

Weight	0.2 lbs
Height	31.3mm
Width	32.5mm
Length	100.0mm
<b>Magnetic Head</b>	
Number of tracks (MR1000)	2 (any combination of tracks 1 & 2)
Number of tracks (MR1300)	3 (any combination of tracks 1, 2 & 3)
Track width	1.5 mm
Core Material	Sendust
Head Life	>1,000,000 passes
MTBF	300,000 hours
<b>Card Feed</b>	
Speed	100 to 1200 mm/sec
Force	90g typical, 180g max.
Direction	Bi-directional

## ELECTRICAL

Supply Voltage	+5V DC
Supply Ripple	100mV p-p max.
Power consumption	25mA typical
<b>Power source</b>	
PS2 wedge interface	PS2 port
USB interface	USB port
RS232 interface	+5VDC power adapter

## ENVIRONMENTAL

Operating Temperature	-10 to +55 C
Storage Temperature	-30 to +70 C
<b>Relative Humidity</b>	
Operating	95% max. non-condensing
Non-operating	95% max. non-condensing
Vibration (10 to 55Hz)	4 G'S
Shock	30 G'S

## INTERFACE

<b>PS/2 keyboard with wedge</b>	standard
<b>USB 1.1</b>	optional
<b>RS232C Serial</b>	optional
Protocol (programmable):	
Baud Rate	2400, 4800, 9600*, 19200
Data Bit	7, 8*
Parity	None*, Even, Odd
Stop bits	1

\* Default preset at factory

## GENERAL INFORMATION

Output formats	Decoded output with programmable parameters including prefix, suffix, terminators and separators
Software utility	Windows programming utility, OPOS/JPOS drivers
Good-read indicator	Dual color LED and audible beeper
Available colors	Beige or black

## CONNECTOR PINOUT

### PS2 Keyboard Interface

MiniDin6 male connector (to PC keyboard port)

Pin #	Function
1	Keyboard data
2	No connection
3	Ground
4	+5VDC
5	Keyboard clock
6	No connection



MiniDin6 female connector (from downstream keyboard)

Pin #	Function
1	Keyboard data
2	No connection
3	Ground
4	+5VDC
5	Keyboard clock
6	No connection



### USB Interface

USB standard type-A connector (to PC USB port)

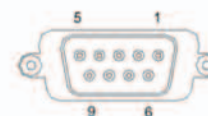
Pin #	Function
1	+5VDC
2	D-
3	D+
4	Ground



### RS232 Interface

DB9 female connector

Pin #	Function
1	DCD (tied to 4 & 6)
2	TXD to PC
3	RXD from PC
4	DTR (tied to 1 & 6)
5	Ground
6	DSR (tied to 1 & 4)
7	CTS from PC
8	RTS to PC
9	No connection



RJ45 8-pin

1	+5VDC
2,3	No connection
4	Ground
5	TXD to PC
6	RXD from PC
7	RTS to PC
8	CTS from PC

