Model: MR3000

Magnetic Stripe Reader

Bi-directional Read

USER MANUAL

LOGIC CONTROLS

NOTICE

The manufacturer of the POS cash drawer makes no representations or warranties, either expressed or implied, by or with respect to anything in this manual, and shall not be liable for any implied warranties of fitness for a particular purpose or for any indirect, special or consequential damages. Information in this document is subject to change without notice and does not represent a commitment on the part of the manufacturer.

FCC NOTICE

This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with this manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A digital device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

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FEATURES

- Dual tracks 1 and 2
- Built-in decoder
- Built-in dual output interface:
- Keyboard wedge
- RS232C (optional)
- Bi-directional operation
- Auto recognition of different computer models:
  (XT, AT, PS/2 Model 25, PS/2 Model 50 and up),* and all compatible clones
- Operates with or without the conventional computer 101 keyboard attached
- Dual color LED to indicate a Good/Bad reading
- Stainless steel card guide
- Heavy duty die cast case
- Interface cables included

(XT, AT, PS/2 are registered trademarks of International Business Machines Corporation.)

CARTON CONTENTS

MR3000

1. Magnetic stripe reader, pre-assembled
2. User's Manual

MR3000RS

1. Magnetic stripe reader, pre-assembled
2. 5VDC Power adapter
3. User's Manual

INSTALLATION

Your magnetic stripe reader was pre-assembled for easy installation.

MR3000

1. Connect the male DIN 5 connector to the keyboard port of the computer.
2. Connect the female DIN 5 connector to the system keyboard or POS keyboard.

MR3000RS

1. Connect the female DB9 connector to the communications port of the computer (Com1 or Com2).
2. Connect the power adapter input to the AC power source.
3. Connect the power adapter output to the DB9 power input.

FUNCTIONAL TEST

MR3000

To functionally test the MR3000 will require the use of a standard credit card. Place the credit card at one end of the Magnetic Stripe Reader. Face the magnetic strip of the credit card toward the arrow of the MSR. Move (swipe) the card through the reader. The MR3000 is a bi-directional device, therefore, it does not matter which direction the credit card is swiped. The credit card information will appear on the monitor. The information shown on the screen will vary according to the card used. The information should look similar to the following:

%554384045453^JOHNDOE^4374574434?;9437577710640473475?

MR3000RS

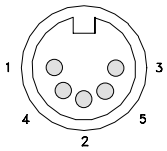
To functionally test the MR3000RS will require the use of a standard credit card and a communications utility program. Start the communication utility program and set it's protocol to 9600, n, 8, 1. Face the magnetic strip of the credit card toward the arrow of the MSR. Move (swipe) the card through the reader. The MR3000 is a bi-directional device, therefore, it does not matter which direction the credit card is swiped. The credit card information will appear on the monitor. The information shown on the screen will vary according to the card used. The information should look similar to the following:

%554384045453^JOHNDOE^4374574434?;9437577710640473475?

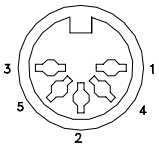
INTERFACE

MR3000

The MR3000 interfaces with the keyboard port of the computer. Two DIN5 connectors are provided to connect the MSR between the computer's keyboard port and another keyboard peripheral (101 keyboard).



DIN 5
Male



DIN 5
Female

DIN 5 M/F

Pin #	Function
1	Keyboard Clock
2	Keyboard Data
3	No Connection
4	Ground
5	+5VDC

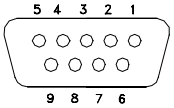
NOTE: The electronics contained within the MR3000 will allow the computer to boot up without the 101 keyboard being attached.

MR3000RS

The MR3000RS can interface with any standard IBM RS232C interface. The output connector of the MR3000RS is a DB9 female connector.

Default Protocol
Baud Rate - 9600
Parity - None
Data Bits - 8
Stop Bits - 1

DB9F Configuration



Pin #	Function	Pin #	Function
1	DCD	6	DSR
2	RXD	7	RTS
3	TXD	8	CTS
4	DTR	9	Not used
5	Sig. Gnd.		

HARDWARE CONFIGURATION

The MR3000/MR3000RS can be configured with different options. The MR3000 has the ability to transmit data a three different rates. The MR3000RS protocol can be set to most popular RS232C configurations.

WARNING: If the user opens the magnetic stripe reader to make jumper changes all product warranties will be voided.

SPECIFICATIONS

Mechanical:

Weight	0.23 lb.
Dimensions	5.70”L x 1.43”W x 1.34”H
Case	Die-cast steel

Environmental:

Operating Temperature	0 to +50 deg C
Storage Temperature	-20 to +70 deg C
Relative Humidity	90%, non-condensing
Vibration	40 G’s
Shock	40 G’s

Reading Performance:

Card feed speed	4 to 47 inches/second
Card feed force	0.6oz, typical
Magnetic head life	1,000,000 passes min.
Read error rate	< 1 in 1000 passes

Electrical:

Voltage	5VDC +/- 10%
Current	30 ma
LED indicator	Green - Good read or ready to read Red - Bad read

Electrical Connections:

Connect the long cable to the computer keyboard port.
Connect the short cable to the computer keyboard.