

MSR-33-K

Magnetic Slot Reader Reader

Keyboard Interface Track123



BayLan Slot Reader with Keyboard Wedge interface can be attached to a computer via the standard computer keyboard, the built-in keyboard wedge decoder is capable to read the row TTL analog signal and translate it into the keyboard emulation signal, so that the MSR series Swipe Card Reader with keyboard wedge or USB interface is fully Plug & Play - (No software driver is needed) since its input to the Computer screen is exactly the same as whatever you have typed on a PC keyboard.

Applications

- Access controls
- Car parking systems
- Retail / POS Applications.
- Membership Card Applications
- Automated Input Device Applications

FEATURES

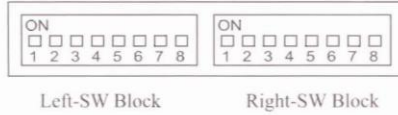
- Read data encoded on magnetic strip cards that meet ISO standards
- Bi-directional card swipe and read capability
- Software and hardware modification is not required
- Switch selectable carriage return, sending start/end byte, and track-2 account number
- Keyboard types and languages are selectable by DIP-Switch in Keyboard Wedge Reader. RS232 parameters are also selectable in Serial Reader
- Power is supplied by the computer to operate the Keyboard Wedge Reader, one power-retrieve cable is bundled to the Serial Reader
- Power up diagnostics
- Good read confirmation by beep sounds
- Magnetic Head Life 300,000 passes minimum

SPECIFICATIONS

Recording Method	Two-frequency coherent phase (F2F)
Compatibilities	Compatible with ISO Standard
Swipe Speed	5 to 60 inch/sec.
Power Consumptions	Triple track : +5V DC 80mA Standby mode : 15mA
Life of Head	Approx. 300,000 passes
Cable Length	1.5meters
Safety Compliant	CE & FCC Class A
Dimensions	158mm(L) x 43mm(W) x 44mm(H)
Weight	300g
Operating Temperature	-0 ~ 45°C
Conservation Temperature	-30 ~ 70°C
Operating Humidity	10 to 95%RH
Conversation Humidity	10 to 95%RH
Shock durability	30G

Specifications are subject to change without prior notice with advancement in technology.

SWITCH SETTINGS



A. Default Settings:

		ON : 1 OFF : 0							
Switch	Models	1	2	3	4	5	6	7	8
MSR-KB/USB		0	0	0	0	0	0	0	0
MSR-RS-232		0	0	0	0	0	0	1	1

B. Left-SW Block:

1.) Track Data Output Selection:

	Track Any	Track 1	Track 2	Track 3	Track 1&2	Track 2&3	Track 1&2&3
SW-1	OFF	ON	OFF	ON	OFF	ON	OFF
SW-2	OFF	OFF	ON	ON	OFF	OFF	ON
SW-3	OFF	OFF	OFF	OFF	ON	ON	ON

2.) Language and JIS-2 & ALT Mode setting:

	U.S.	Germany	Spanish	France	Italy	Swedish	JIS-2	ALT
SW-4	OFF	ON	OFF	ON	OFF	ON	OFF	ON
SW-5	OFF	OFF	ON	ON	OFF	OFF	ON	ON
SW-6	OFF	OFF	OFF	OFF	ON	ON	ON	ON

3.) Keyboard/USB Type "Carriage Return" Selection:

	CR Enable	CR Disable
SW-7	OFF	ON

4.) Sending SS/ES Selection for KB/USB and RS-232:

	Send	Non-Send
SW-8	OFF	ON

C. Right-SW Block:

1.) KB/USB and RS-232 Wedge Device Selection:

	KB/USB	RS-232
SW-1	OFF	ON

2.) RS-232 Baud Rate Selection:

	1200	2400	4800	9600
SW-2	OFF	ON	OFF	ON
SW-3	OFF	OFF	ON	ON

3.) RS-232 Data-bit and Parity Selection:

	Data bit: 7 Parity: Odd	Data bit: 7 Parity: Even	Data bit: 8 Parity: Even	Data bit: 8 Parity: None
SW-4	OFF	ON	OFF	ON
SW-5	OFF	OFF	ON	ON

4.) RS-232 Send CR/LF:

	Send CR/LF	Send CR/LF
SW-6	ON	OFF

5.) Track 2 Account number Only:

If selected, the reader will send out the message before the first separator Character (" = ") and discard the following message.

	Enable	Disable
SW-7	ON	OFF

6.) Inter-character Delay for MSR-KB Series and Special Output Data Format for MSR-RS-232 Series

a. For MSR-KB/USB Series:

	10 ms	3 ms
SW-8	ON	OFF

b. For MSR-RS-232 Series:

	Special	Normal
SW-8	ON	OFF

Special Output Data Format:

* Single Track:

STX	Data	Checksum of Data	ETX
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* Dual Track:

STX	Track 1 or Track 3 Data	Checksum of Data	DLE
STX	Track 2 Data	Checksum of Data	ETX

* Triple Track:

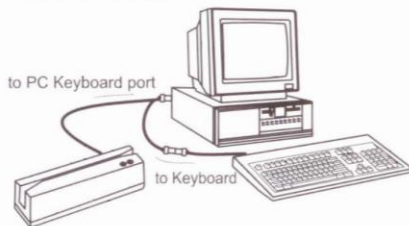
STX	Track 1 Data	Checksum of Data	DLE
STX	Track 2 Data	Checksum of Data	DLE
STX	Track 3 Data	Checksum of Data	ETX

Note : *STX: Start Text (02)hex
 ETX: End Text (03)hex
 DLE: Data Link Escape (10)hex
 Data = <SS><Card Data><ES>
 Please check <SS>and<ES>in Normal Output Data Format section

INSTALLATION STEPS

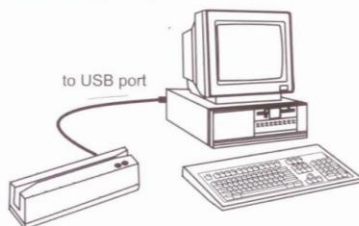
1. For Keyboard Wedge Reader

- Step 1 Turn the computer system power off, and unplug the keyboard cable.
- Step 2 Connect the keyboard cable into the short-cable of the Reader.
- Step 3 Connect the long-cable of the Reader into the keyboard input socket on the computer system.
- Step 4 Turn the computer system power on, then you can hear a beep sound for confirming the reader's self-test, and Green LED will be lit to indicate that the Reader is ready for reading.



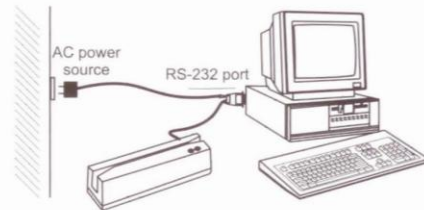
2. For USB Reader

- Step 1 To make sure the Windows USB utility is available in your computer.
- Step 2 Connect the MSR's USB cable to the USB port on the computer, the Green LED will be lit to indicate the MSR is ready for operation.



3. For RS-232 Serial Reader

- Step 1 Turn the computer system power off.
- Step 2 Connect the Reader's cable to the RS-232 port on the computer system.
- Step 3 Connect the DC power adapter to the power-jack on the cable-end of the Reader, then plug the adapter into AC socket. You can hear a beep sound for confirming the Reader's self-test, and Green LED will be lit to indicate that the Reader is ready for reading.
- Step 4 Turn the system power on, and run your application software, include one driver utility, to get the data from the serial port which connects with the Reader.



• 5V-DC power-jack (on the RS-232 cable-end):



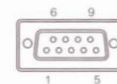
To be connected with 5V-DC power adapter.
(Inner pin is positive)

Note: 9V-DC power input model should request to supplier.

• RS-232 connector:

D-Sub 9 pin Female

Pin	2	3	5	9
Wire	Red	White	Yellow	Black
Function	TX		GND	VCC



7. NORMAL OUTPUT DATA FORMAT

1. Single Track:

SS	Card Data	ES	
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2. Dual Track:

SS	Track 1 or 3 Data	ES	
SS	Track 2 Data	ES	

3. Triple Track:

SS	Track 1 Data	ES	
SS	Track 2 Data	ES	
SS	Track 3 Data	ES	

Notes: 1) SS (Start Sentinel):

% for Track 1

; for Track 2 or 3

2) ES(End Sentinel):

? for Track 1, 2 or 3

3) — (Carriage Return):

Carriage Return can be set by Left-SW-7

4) Selectable setting for SS, ES and —