

# MSR Series



## TYSSO®

*Insist on the Best*



## Magnetic Stripe Card Reader & Writers

### FEATURES

#### TTL READER

##### MCR Series

The MCR Series are undecoded TTL reader. The TTL readers are designed with low power CMOS for TTL interface. The readers are offered, as pictured, with or without cover. Available for single, dual and triple track configurations.

#### CARD WRITER/READER

##### MSE-630 Series

The Card Writer/Reader are compatible with ISO 7811/2, through 5 and ANSI 4.16 1983. Any ISO/ANSI standard track format can be read/written from/to any track location (1,2,3). MSE-630 also reads/writes custom data format and offers selectable writing density (75/210 BPI). It is intended for use with a personal computer via the RS-232 or USB connectivity.

#### KEYBOARD WEDGE /

#### RS-232 READER

##### MSR Series

The compact readers can be attached on the PC keyboard or RS-232 serial interface. The readers have built-in decoder and come with cables to connect to the keyboard and to the PC XT/AT/PS/2 or compatibles. Data sent from the reader emulates keyboard data, so no need to modify hardware and software. The keyboard type, language and output data formats are selectable by dip-switch setting. External power is not required. The RS-232 readers can draw power either from an external source or through the RS-232 port on the system. The readers are available for single, dual and triple track configurations.

## SPECIFICATIONS

<b>TTL READERS MCR Series</b>	
Recording Method	Two-frequency coherent phase (F2F)
	Compatible with ISO 7810/7811/7812/7813, JIS X6301/6302
Power	Single Track +5VDC±5% 2.5mA
	Dual Track +5VDC±5% 4.7mA
	Triple Track +5VDC±5% 7.0mA
Output	Vol(Max) = 0.4V At IOL = 2mA
	Vol(Min) = VDD = 0.4V At VDD = Min
Dimensions(Two Versions)	100mm(L) x 28mm(H) x 34mm(W) (With Cover)
	90mm(L) x 24mm(H) x 22mm(W) (Without Cover)
Wire Length	210mm(Without Cover)
	560mm(With Cover)
Connector	Single Track : 5 Pin or 7 Pin Housing
	Dual Track : 7 Pin Housing
	Triple Track : 10 Pin Housing
Configurations	Single Track : Track 1,2 or 3, JIS- II
	Dual Track : Track 1&2 or 2&3
	Triple Track : Track 1&2&3
<b>KEYBOARD WEDGE / RS-232 READER MSR Series</b>	
Compatibility	PC AT/XT/PS2 or RS-232 Serial
Power	No External Power Requirements
Output	Keyboard wedge: Emulates Keyboard Output
	RS-232: Baud Rate 1200/2400/4800/9600/19200
Dimensions	158mm(L) x 43mm(W) x 44mm(H)
Cables	1.5m From Reader To PC
	30mm From Reader To Keyboard
Connectors	5 Pin On Plug For PC
	5 Pin On Socket For Keyboard
	9 Pin D-Sub RS-232 (Female) For RS-232
Configurations	Single Track : Track 1,2 or 3, JIS- II
	Dual Track : Track 1&2 or 2&3
	Triple Track : Track 1&2&3
<b>CARD WRITER / READER MSE-630 Series</b>	
Power	24V DC 2.5 mA
Current Consumption (Read/Write)	350/600 mA
Dimensions	212.5mm(L) x 63.5mm(H) x 64mm(W)
Cable	1.8m RS-232 cable / optional USB adapter cable
Connector	USB or RS-232 Serial
Card Density	Encoding/Decoding : 75 ~ 210 BPI
Configurations	Single Track : Track 1, 2 or 3
	Dual Track : Track 1&2 or 2&3
	Triple Track : Track 1&2&3
Encoding Energy	300 - 4000Oersted
Recording Capability	Track 1 : 76 characters
	Track 2 : 37 characters
	Track 3 : 105 characters
	Dual Track : Track 1&2 or 2&3
	Triple Track : Track 1&2&3