## TMSR / MMSR Series



## Program the Reader by software utility, Easy to use.

## FEATURES

- Software utility setting, easy to use
- Bi-directional card swipe and read capability
- Software and hardware modification is not required
- Single, dual and triple track(s) decoding, meet with ISO and JIS standards
- Power up diagnostics
- Card read confirmation by beep sounds
- Magnetic head life : 300,000 passes minimum, 1,000,000 passes version can be requested
- Super low power consumption model $(<20 \mathrm{~mA})$ is upon request
- Color option : beige or black
- Three kinds of cable outlet option: keyboard wedge, RS-232 serial, or USB
- Selectable software settings for carriage return, sending start/stop byte, intercharacter delay


## SPECIFICATIONS

| Electronics |  |
| :---: | :---: |
| Power supply | $+5 \mathrm{VDC} \pm 10 \%$ |
| Current consumption | $<100 \mathrm{~mA}$ |
| Interface | Keyboard Wedge, RS-232, or USB |
| Swipe Function |  |
| Swipe Method | F2F (two-frequency coherent phase) complied with ISO and JIS standard |
| Swipe Speed | 5 to $60 \mathrm{inch} / \mathrm{sec}$. |
| Card Standard | Track 1, IATA Standard |
|  | Track 2, ABA Standard |
|  | Track 3, THRIFT Standard |
|  | JIS-II, JIS x 6301 Standard |
| Card Density | Track 1 $\cdots \cdots \cdots$. |
|  | Track $2 \cdots \cdots \cdots .40$ characters ( 5 bit code) |
|  | Track $3 \cdots \cdots \cdots .107$ characters ( 5 bit code) |
|  | JIS- II $\cdots \cdots \cdots \ldots . . .79$ characters ( 7 bit code) |
| Physics |  |
| TMSR Size | $96.5 \mathrm{~mm}(\mathrm{~L}) \times 30.5 \mathrm{~mm}(\mathrm{~W}) \times 32.2 \mathrm{~mm}(\mathrm{H})$ |
| Weight | 101.3 g |
| Cable length | 1.5M |
| Head life | 300,000 pass minimum |
|  | 1,000,000 passes version can be requested |
| MMSR Size | $100 \mathrm{~mm}(\mathrm{~L}) \times 33.8 \mathrm{~mm}(\mathrm{~W}) \times 28.3 \mathrm{~mm}(\mathrm{H})$ |
| Weight | 118.9 g |
| Cable length | 1.5 M |
| Head life | 300,000 pass minimum |
|  | 1,000,000 passes version can be requested |
| Others |  |
| Storage temperature | $-20^{\circ} \mathrm{C}$ to $+60^{\circ} \mathrm{C}$ |
| Operating temperature | $0^{\circ} \mathrm{C}$ to $+50^{\circ} \mathrm{C}$ |
| Operating humidity | 20\% to 90\% |

## Models



