

Smart
PALM
HAND HELD READER



**Hand Held Reader
with built
in Printer
Canteen Applications**



**Hand Held
Reader
without printer**

Features

- ✓ RF (Radio Frequency 13.56 MHz.) proximity. Philips Mifare technology.
- ✓ 70 mm. Maximum under optimum working conditions.
- ✓ 16x2 LC display Real time clock display.
- ✓ Built in IMPACT PRINTER
- ✓ Built in Rs232 communication.
- ✓ 2,500 records approx. storage with battery backed Ram.
- ✓ 6 hrs operation battery backed up.
- ✓ Battery charged or low LED indication.
- ✓ Error or Accepted LED indication.
- EEPROM to store reader settings and parameters, which can be
- ✓ programmed through serial port.
- ✓ Comprehensive POST (Power on self test) to report errors.
- ✓ Built in real time clock with battery backup.
- ✓ Card validation based on invalid/valid cards data at reader level.
- Built in auto power ON RESET, low voltage detection and reset circuit
- ✓ for start and shut down of the micro controller.
- ✓ Built in Watchdog Timer to supervise the micro controller.
- ✓ AC/DC adaptor (100-240 VAC, DC 9V)
- Programmable reader ID 1 to 99

Proximity Reader Security:

- ✓ The card reader will uniquely identify only one type of cards supplied and will not read proximity smart cards of other manufacturers.
- ✓ The reader and cards have a unique customer code. Therefore cards issued (may be with same card number) to a different customer will not be read by the readers of another customer.
- ✓ The readers are capable of running in stand-alone mode and storing the data of the cards collected through this mode. The readers are capable of sending the data to the central controller whenever queried by the computer.

Environmental/Mechanical Features:

- ✓ Operating temperature 0 to +60 C, Humidity 0 - 95% non condensing.
- ✓ Dimensions (standard size) with printer:
Height 240 mm, Width 110 mm and Depth 83 mm.
- ✓ Dimensions (standard size): Height 157 mm, Width 83 mm and Depth 30 mm.

Communication/Programmable Features:

- ✓ Communication to and from the reader is in the form of ASCII messages with each message having a message header. This feature makes the reader cross platform compatible.
- ✓ Communication with host computer through ASCII messages, making the reader cross platform compatible (DOS, WINDOWS, UNIX, SOLARIS, Apple, MAINFRAMES or any computer hardware).
- ✓ Health and card data messages transmitted to host without waiting for poll command from host (in case of RS232 connectivity and is optional).
- ✓ All messages start with a unique message header. Reader specific and broad cast messages.
- ✓ Storage up to 500 card numbers, downloadable from host. These card numbers can be made valid card numbers (all other cards will be rejected) or invalid card numbers (all other cards will be accepted).
- ✓ Reader clock synchronized by host.
- ✓ Upload records in single or block mode.
- ✓ RAM clear from host with password.
- ✓ Reader can be put in on-line mode for record validation and storage by host computer.

