TP-0012

LF FDX/HDX Handheld RFID reader-Bluetooth and USB

Issue 03

The TP0012 is a Compact Low Frequency Handheld Bluetooth enabled RFID Reader capable of reading animal ear tags at 125-134.2 kHz. The product includes support for ISO11784/85 tags FDX-B, FDX-A, HDX, and others including EM4102.

The reader is ergonomically designed for close-quarter work with animals or animal samples and is ideal for rapid verification activities. It is lightweight and fits comfortably in the hand.

The device features a class II Bluetooth interface capable of use up to about 10m from a connected terminal device such as a PC or handheld computer. Now you can leverage your existing investment in handheld computers to quickly add RFID functionality.

The unit is powered from a long life Lithium-ion rechargeable battery (1400 mAh) and is recharged via the USB port.

A 128 x 64 pixel OLED display provides bright clear indications of tag ID and Tag type including ICAR code. The unit also has battery status, Bluetooth active indicators plus three button (2 for scrolling and one for enter). For ISO14423 compliant tags the applicant data can also be displayed.

The device also includes data logging memory capable of storing around 999 tag readings which can be uploaded from the device memory via Bluetooth to the host computer.

The reader has several basic operations. Menu selection of these options is displayed via the screen. Functions include:

- Setting the language of use.
- Controlling tag memory logging, enabling, uploading to host and erasing.
- Performing read operations. (scan to log or scan directly to USB or Bluetooth output).
- Writing information to ISO14423 compliant tags.
Software

The product outputs tag EID information in plain text over a serial USB or Bluetooth connection. Users can quickly see results using terminal emulation software on their PC or laptop. Developers need only be concerned with simple serial port operations to parse in the data and integrate the product into your own business application.

The product is shipped Microsoft Windows Software to enable you to get a quick start. Software can also be provided to load the tag with user data if the tag is writable.

Technical Specifications

- **Model**: TP-0012
- **Frequency**: 125-134.2kHz
- **Compliance**: FCC, CE
- **Tag Compatibility**: ISO11784/5 FDX-B, FDX-A, EM4102, HDX, ISO 14423 compliant tags (e.g. EM4305)
- **Reading distance**: 0 to 16cm (typically >8 cm depending on tag)
- **Communication interface**: Bluetooth, USB (miniB)
- **Bluetooth standard**: Class Two
- **Power consumption**: 25 mA average
- **Battery**: Lithium-ion (1400 mAh, 3.7V)
- **Antenna connection**: internal
- **Operating temperature**: -0 °C to 40 °C
- **Storage temperature**: -10 °C to 50 °C
- **Humidity**: 5% to 90% (non condensing)
- **Dimensions**: 155mm x 82mm x 33 mm
- **Weight**: 155 g
- **Tag EID Storage capacity**: Up to 1000 items
- **Display**: 128 x 64 monochrome OLED
- **Keyboard**: 4 button (1 enter, 2 scroll, 1 power)
- **Clock**: none
- **Audio**: beeper

Included Items

The product is shipped with the following:

- Handheld RFID Reader/Writer (Bluetooth and Serial).
- USB/serial converter data cable.
- USB-Serial adaptor Microsoft Windows™ drivers. And emulator software application.

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