



RT600 BT PRO User Guide

Low Frequency Microchips Stick Reader



Outline

*RT600PRO is a stick reader for low-frequency RFID tags reading. The reader supports FDX-B, HDX, Atria ISO thermic and Fever check protocols tags reading in compliance with ISO 11784/11785 international standards. The product uses a 1.54-inch color high-definition display with up to 240*240 pixels.*

In addition, the product also has a Bluetooth wireless communication function, which is convenient for real-time communication with the mobile phone, and the device can be controlled in all directions through the mobile APPs (CTemp Helper). The user can also communicate with the desktop devices through the USB data cable. The product has stable performance, simple operation, and is suitable for livestock animals and pets' traceability applications.

The battery charge level is indicated in green on the right and at the top of the display.


The USB connector allowing the recharging of the battery as well as the connection to a peripheral is accessible by unscrewing the large screw at the bottom of the reader

Functionality and Parameters

Working Frequency	ISO 11784/85 134,2Khz
Chips type	EM 4105 , FDX B, HDX, Atria ISO Thermic, Fever check
Reading range	Glasstag 2 x12mm 18/20cm Eartag HDX 27mm 55/60cm Eartag FDX B 27mm 24/36cm
Power	Lithium battery 7,4V, 3000mA
Memory storage	2500 ID number, Customizable upon request
Display	Color TFT, 1,54 inch, Pixel 240 x 240
Multi languages	English, French, Polland, Spanish, Deutch, Italian, Portugues.
Battery	160h in continuous use
Weight	430g
Communication	USB Port(Win 7&10), Bluetooth 4, HID, BLE (Win10)
Indice IP	IP 66
Operating temperature	-5°C / +50°C

Chapter I - Turning on the reader and searching for "Chip"



Pressing the button  turns on the reader.

The reference of the reader as well as the version of the program are displayed.

After 3 seconds the screen displays "SCAN". Pressing the "OK" key will trigger a reading.

The search for a transponder is carried out for about 20 seconds. If no "chip" has been detected the screen displays "No Transponder found".

Chapter II - “Continuous Scan” Function





From "SCAN" it is possible to trigger continuous reading by pressing



Chapter III - “Settings” MENU

The "Settings" Menu allows you to customize the functions offered by the RT600 PRO.

From the "SCAN" screen, pressing the key  validated by "OK" will allow you to enter the "Settings" menu. Pressing the key  will successively offer the various customizable functions: "Language", "Memory", "Bluetooth", "HEX", "Show Space", "HDX High Power".

Seven languages are available: English, French, Spanish, Italian, Portuguese, German, Polish.

Each selected function can be “Enable” or “Disable”.

The memory function can store 2500 identifiers. A “DUP” message informs that the “chip” has already been read. It is therefore not saved several times in the reader's memory.

The menu “Bluetooth” allows to choose BLE or HID. Bluetooth BLE only works with Windows 10.

The "HEX" function displays the number of the chip read in Hexadecimal or Decimal.

Some countries require a space to be displayed between the country number (or ICAR code) and the other 12 digits that make up the chip number. The “Show Space” function allows this choice of display.

The “HDX High Power” function activated displays a red mark in the upper right part of the display during the “Scan” or “Continuous Scan”.

After validating “Setting” by “OK”, by pressing , it is possible to configure all the functions of the reader.



« Settings »



« Languages »



« Memory »



« Bluetooth »



« HEX »



“Show Space”



1/ « HDX High Power » 2/ Example of display with several functions activated

1/ the “HDX High Power” function activated provides a better reading distance only with HDX “chips” (+20% approximately). On the other hand, it is incompatible with the reading of FDXB “chips”.

2/ this screen shows that the “Memory” and the “High Power HDX” are activated (red mark).

Chapter IV - Reading "Thermochip chip"



Photo 1



Photo 2

The "Thermochip" chips which, in addition to the identification number, transmit the animal's temperature are read by the RT600BT PRO reader. In this case the temperature is displayed after the type of chip (Photo1).

The temperature is only indicated if it is above 30°C and below 43°C (Photo 2).

In the "Temperature" function it is possible to choose whether the temperature is displayed in degrees Celsius or degrees Fahrenheit.