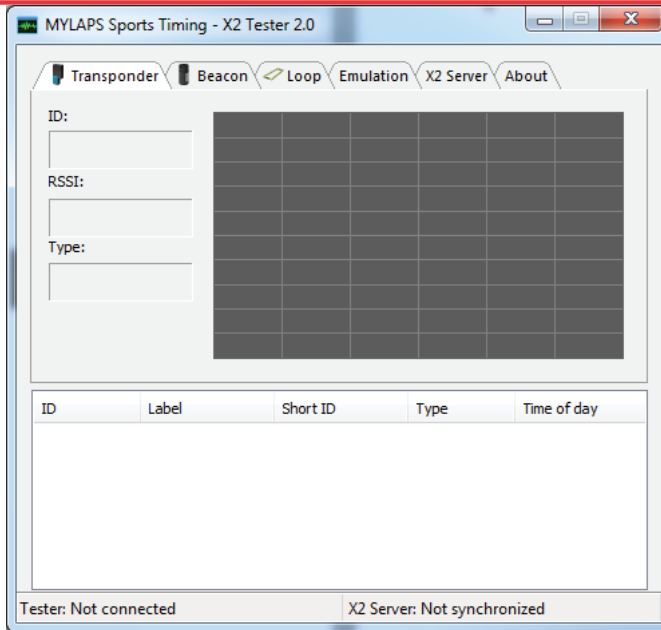


MYLAPS X2 USB Tester



MANUAL

Contents

Contact Information.....	2
1. Introduction.....	3
2. X2 Tester Hardware	4
3. X2 Tester Software	5
3.1 Introduction.....	5
3.2 Transponder.....	5
3.3 Beacon	5
3.4 Loop.....	6
3.5 Emulation	7
3.6 X2 Server.....	7
3.7 About	8
3.8 Notification Area Icon	8

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1. Introduction

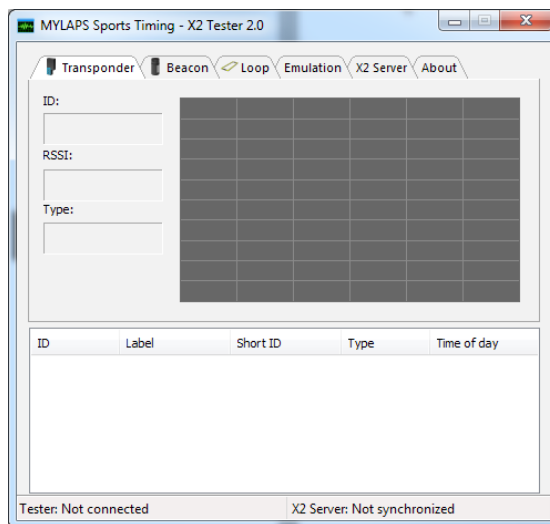
The X2 Tester is an application which has to be used in conjunction with the USB Transponder Reader and then can read transponder and beacon information. Besides this it can also be used to test a loop and send test transponder signals to a loop. It's also possible to synchronize with an X2 Server, after this the software is able to identify a transponder by its label stored in the X2 Server.

2. X2 Tester Hardware

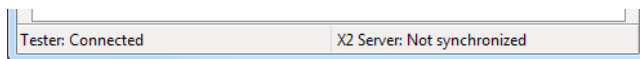
The X2 Tester hardware consists of a USB Transponder Reader and a USB cable to connect the reader to the PC.

When the reader is connected to the PC and the X2 Tester software, the LEDs near the USB connector of the reader will light up green. A red LED indicates that the reader is not connected yet.

Do **not** connect the reader to the PC before or during the installation of the X2 Tester software!



When the software detects a correctly connected USB Transponder Reader, it will show 'Tester: Connected' in the lower left corner of the application.



3. X2 Tester Software

3.1 Introduction

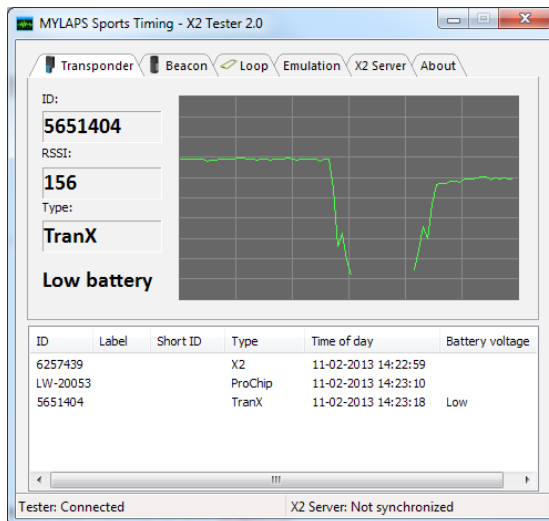
The X2 Tester software consists of the X2 Tester application and a driver for the USB Transponder Reader, which are installed by one installer.

The software can be downloaded via the following link:

http://support.amb-it.com/x2tester/X2Tester_Setup.exe

3.2 Transponder tab

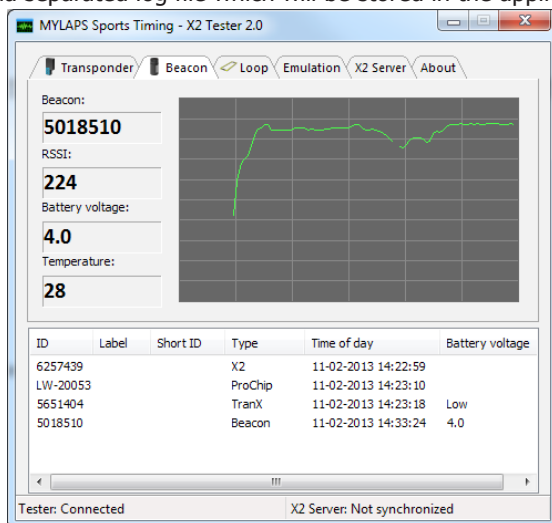
On the Transponder tab the ID, RSSI (received signal strength indicator) and type of the detected transponder will be shown. To get an impression of the RSSI of a transponder the graph on the right will show the RSSI over a period of time. When receiving a battery powered transponder which is low on power a 'Low battery' warning will be shown. As long as the application is running the previously detected transponder data will be added to a list at the bottom of the transponder tab. For later reference all transponder data will also be saved to a comma separated log file which will be stored in the application directory. Supported transponders are MYLAPS CAR/BIKE/KART/MX Type3, X2 and ProChip.



3.3 Beacon tab

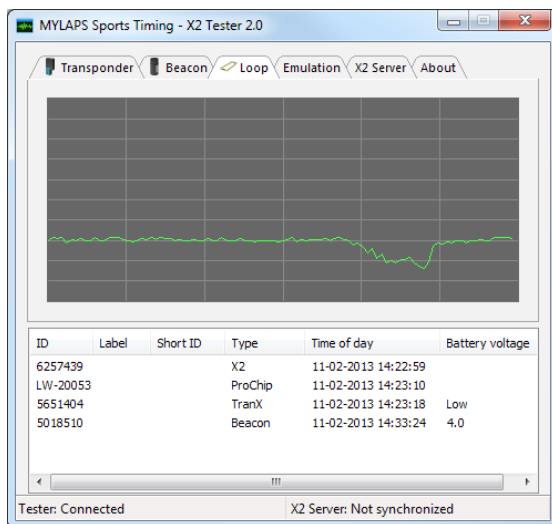
On the Beacon tab the ID, RSSI (received signal strength indicator), battery voltage and temperature of the detected beacon will be shown. To get an impression of the transmission RSSI of a beacon the graph will show the RSSI over a period of time.

As long as the application is running the previously detected beacon data will be added to a list at the bottom of the beacon tab. For later reference all beacon data will also be saved to a comma separated log file which will be stored in the application directory.



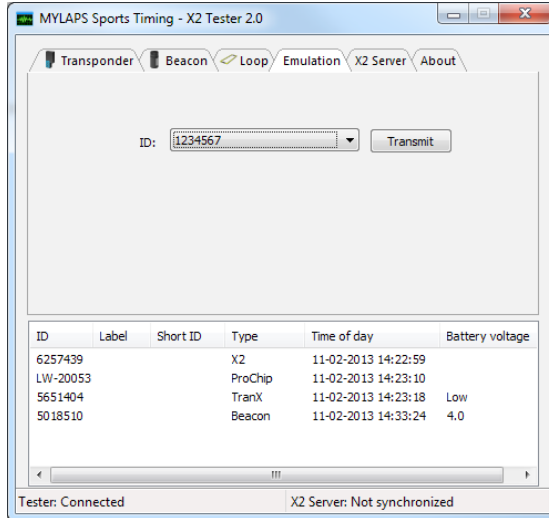
3.4 Loop tab

In conjunction with a Loop Tester in transmit mode, the X2 Tester can be used to locate a broken loop wire. Put the Loop Tester in transmit mode and hold it above the loop, sweep the USB Transponder Reader above the loop wire on about the same height as the Loop Tester. The loop wire is probably broken when the graph shows a significant drop in RSSI.



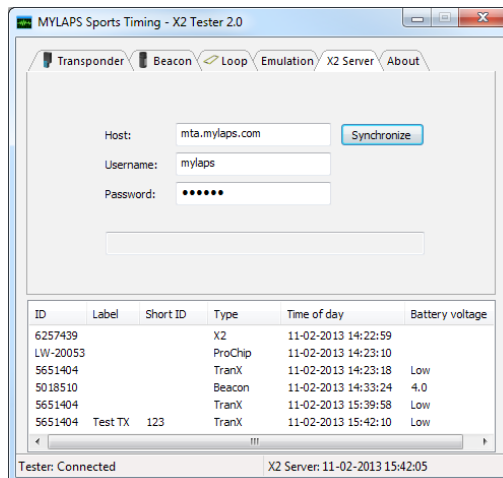
3.5 Emulation tab

To test a loop, it's possible to emulate a couple of transponder numbers on the Emulation tab. To test a loop hold the USB Transponder Reader above a loop, select a transponder number from the dropdown box and click 'Transmit'. A transponder signal with the chosen number will be transmitted by the reader. Correct reception can be checked in the X2 Manager software or X2 compatible timing software.

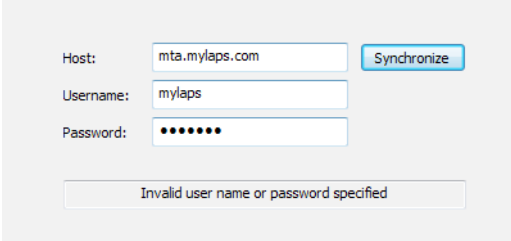


3.6 X2 Server tab

On the X2 Server tab transponder data (label and short ID) can be read from an X2 Server. This enables the identification of a transponder by its label or short ID stored in an X2 Server, making it possible to check if transponder relations are correct. The last time the data is synchronized with the X2 Server is shown in the lower right corner of the application.



During the connection with the X2 Server the status of the connection will be shown. Login failures will also be displayed.



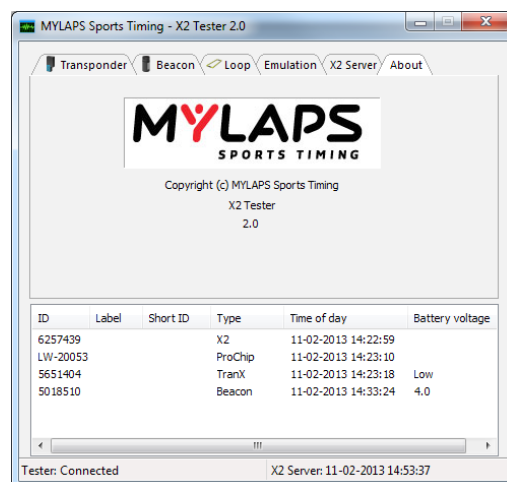
Host:

Username:

Password:

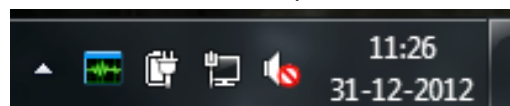
3.7 About tab

The version of the software can be found on the About tab.



3.8 Notification area

The X2 Tester application can also be found in the notification area of the taskbar and if the application is minimized it will automatically minimize to the notification area.



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