Mirko Dalmonte (IZ4PNN) **MySondyGo**

(Installation manual for Windows by Aldo Moroni (IW2DZX))



The MySondyGO software consists of two parts:

Firmware, distributed in a binary file called MySondyGo.bin to be loaded on the TTGO that will take care of the reception and decoding of the direct signal.

An Android app. called MySondyGo, which can be downloaded directly from PlayStore for the complete control of the TTGO via Bluetooth and the visualization of the received signal.

To load the firmware using a PC (Windows 10), we must first install the drivers that will allow the PC to communicate via USB with the TTGO through a COM port. This COM port will be added to the list of COM (physical or virtual) already present on our PC.

In the example images, the MySondyGo.zip file has been unpacked on the desktop by creating a folder called MySondyGO containing everything needed for installation

> 1. First, we need to install the drivers according to our operating system CP210xVCPInstaller x86.exe for 32 bit systems CP210xVCPInstaller x64.exe for 64 bit systems

2. Once the driver installation is complete, connect the TTGO via USB. Let's go back to our MySondyGo folder and use flash download tools v3.6.6.exe to load the firmware through the following procedure.

Select the ESP32 DownloadTool in the first screen that appears.



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Click the 3 points indicated by the arrow, and indicate the location of the MySondyGO.bin file.



Next, choose the COM port. In the image on the side it is COM10 due to the presence on this PC of numerous other COMs

We check that everything corresponds to the screen on the side, apart from the COM number which could be different on you machine.

Once the parameters have been checked, press the

START

button to start loading the firmware.

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A series of characters, as seen below, appear during upload. Should this fail then press the **RST** button on the TTGO to restart the process.



MySondyGo

Android App.

MySondy GO Dalmonte Mirko

From mobile access Google "Play Store"

Search for the MySondyGo app Select it and install it, giving all permissions.

Upon startup, MySondyGO will ask for authorization to use the Bluetooth.

The application will turn on the Bluetooth and turn it off when the app is closed.

It will then carry out a search for the activated TTGOs and, upon first association, will ask for authorization.





Press SET to set the frequency to receive, then NEXT for the type of probe and SEND to send the new settings to the TTGO.

Menu buttons

Zoom on the GPS position >>> Zoom on the position of the probe >>> Map type >>> Track on / off >>> Measure distance >>> TTGO connection>>> Configuration >>>

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The only adjustment we will eventually have to make will be to correct the offset of our TTGO.

Calibration must be performed in the presence of a signal of at least moderate intensity.

By pressing TUNE, MySondyGO will scan in a range of 500kHz with respect to the frequency set in the main screen.

When a useful signal is found, it will enter the offset value and there will be nothing left to do but press SAVE.

While receiving a signal, the offset value is constantly indicated in parentheses. Slight deviations are irrelevant.