

peTra TRB78 transmitter User's Manual

Purpose of the device: The device is designed for on board use. The TR(B)78 transmitter is capable for GPS position receiving and transmitting the GPS position data signal concentricly on open frequency 868 MHz.

The TRB78 transmitter contains a built in barometric altitude meter. The device can indicate the climb and dive of the aircraft.

We recommend the use of TR(B)78 transmitter for glider owners and pilots who wish to operate the transmitter from an on board power supply and track the location of their aircraft on online tracker sites.

Technical Parameters

Power Supply Voltage:	5V (B type standard USB connector)
Transmitter output:	25 mW
Frequency:	868 MHz
Dimensions:	40 mm (W), 86 mm (H + 50 mm Antenne), x 20mm (L)

Effective range

The Effective range of the device is 40-80 kms which strongly depends on the efficiency of the receiver unit.

Note: Due to the low capacity and operating frequency, (theoretical) optical line of sight is required between the transmitter and the ground receiver!

Any ground object (eg.: mountain, buildings, forests) can interfere and prevent transmitted signal.

The device can be used without any radio license

Safety Warning:

Safe securing of the device and the power cord is solely the responsibility of the user and must be in accordance with the conditions of use of the aircraft. Make sure that the device can not fall off after installation, and the unit and / or wire does not interfere with the use of the aircraft.

Installation:

Make sure that the antenna of the device (in normal flight position) is vertically upright or down. Avoid to place the antenna closer than 25-30cm to any other metal object which is parallel to the antenna, or larger metal parts (eg.: engine) In case of installation to metal tube / rod the tilt of the antenna has to be at least 45 degrees to the metal tube / rod. For aircrafts constructed of metal and carbon fibers, try to avoid shielding and covering the antenna between the antenna and ground receivers in the normal flight position. In case of such aircrafts we recommend to place the device under the line of the canopy where the antenna extends over the line of the cabin and the canopy hatch.

The device can be fastened with double sided tape, velcro tape, fastener tape. You can find more fastening solutions on our website.

Use:

Turning on the device

To turn on the device, connect a standard USB cable to the USB B type socket on the bottom of the device, to provide 5V voltage with a standard USB connected powerbank. Always use only standard USB socket. The use of any other different voltage power supply is forbidden. The use of different voltage leads to malfunction of the device and loss of warranty !

LED Indicator

The green LED indicates the device is turned on.

15-30 seconds after turn on (If GPS signal is available) the LED indicator flashes in red in every 1 second. In this state the transmitter is transmitting the GPS data.

If there is a ground receiver nearby, You can check the signal of TR78 on the known tracker websites.

You can find the list of the recommended tracker pages on www.peviktera.hu. We recommend www.viewair.eu to track Your device.

Legal Disclaimer

No element in the operating environment and technological background of the device ensures that the accuracy of the device, communication, data processing and display speed can be the basis of decisions during the flight.

The device is only capable of transmitting the GPS position low capacity. The use of this position information is solely the responsibility of the users!

The manufacturer does not take any responsibility for the accuracy for the displayed and non displayed data on any tracker website.

Troubleshooting

-The LED indicator does not light. Check the power cord and power supply.

-The red LED indicator does not flash after 15-30 secs. Check if GPS signal is available at Your location. In case if GPS data signal not available, the indicator will not flash.

-The LED indicator flashes red in every 1sec but the data not displayed on the tracker site

Check if the ground receiver available near to your location. if there is no ground receiver which can receive the signal of your transmitter, the data can not be displayed on websites.

If You have any questions please contact us on info@peviktera.hu or check our website www.peviktera.hu