

# peTra TRB82(B) transmitter User's Manual

**Purpose of the device:** The device is designed for on board use. The TR(B)82-B transmitter is capable for GPS position receiving and transmitting the GPS position data signal concentricly on open frequency 868 MHz.

The TRB82-B transmitter contains a built in barometric altitude meter. The device can indicate the climb and dive of the aircraft.

We recommend the use of the transmitter for glider owners and pilots who wish to operate the transmitter without an on board power supply and track the location of their aircraft on online tracker sites.

## Technical Parameters

Built in Power Supply:	Type 18650 3400 mAh
Battery Life:	40 hours
Charge:	USB 5V/1A connectore
Transmitter output:	25 mW
Frequency:	868 MHz
Dimensions:	50 mm (W), 160 mm (H), x 25mm (L)

## Effective range

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

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

## Istallation:

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 parrell 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 reccommend 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, fastsatener tape. You can find more fastening solutions on our website.**

**Use:**

### **Turning on the device**

The power button is located on the bottom of the device.

### **LED Indicator**

After turning on the device the led indicator flashes once in the following order: red-green-blue. The battery level indicator is flashes in every 5 seconds. The colour of the led indicates the battery level.

Green:	50% or greater.
Yellow:	49% - 25%
Red:	24% - 10%
Fast Red flashing:	the battery level is below 10%

10-30 seconds after turn on (If GPS signal is available) the LED indicator flashes in blue between the battery indicator flashes. In this state the transmitter is transmitting the GPS data.

If there is a ground reciever nearby, You can check the signal of TR82 on websites.

You can find the list of the recommended tracker pages on [www.peviktera.hu](http://www.peviktera.hu). We recommend [www.viewair.eu](http://www.viewair.eu) to track Your device.

The device can be operated from any standard 5V / 1A connected external powersupply (eg.: powerbank)

### **Recharging the battery:**

Only charge the device with standard USB 5V / 1A cord connected to a standard USB 5V/1A socket. When the battery is charging, the led indicator lights constantly red. When the battery is fully charged, the indicator lights constantly green

### **ATTENTION:**

**The device does not contain any deep depletion battery protection. The device is designed to be capable to transmit the position data as long as possible. This feature is usefull in case of accident, when the device does not damaged and the rescue teams can still track the device.**

**Due to the device does not contain deepdepletion protection, please turn off the device as part of the standard shutdown process of the aircraft. The warranty does not covers to the battery.**

## **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 with 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 green, yellow, or red LED indicator does not light.** Check the battery level, and charge the battery.

**-The blue LED indicator does not flashes after 10-30 secs.** Check if GPS signal is available at Your location. In case of GPS data signal not available, the indicator will not flash.

**-The blue LED indicator flashes but the data not displayed on he tracker site**

Check if the ground reciever available near to your location. if there is no ground reciever which can recieve 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](mailto:info@peviktera.hu) or check our website [www.peviktera.hu](http://www.peviktera.hu)**