

PilotSonde



PilotSonde is a tiny GPS radiosonde without temperature and humidity sensors, designed to replace the use of optical radio-theodolite to perform a Pilot sounding. Good point consists in getting high quality and accurate GPS Wind measurements and in the other hand the user-friendly procedure thanks to automatic data recording (Pressure, Altitude, Wind Direction and Wind speed.)

Main Functionalities

Automatic measurement of Wind Direction, Wind speed, Pressure and Altitude

Digital transmitter

3D GPS

On/Off switch

Reliable operation up to 20 km altitude, no interruption in clouds

Authorization of launch directly indicated on the radiosonde

Ground receiver self-powered from USB port of the Laptop

Real time display

High Definition Resolution

Automatic Data recording and storage of raw data

Edition of PILOT, STANAG, Aerological report, daily report

Automatic sending of message by: Email, FTP, RS232, Socket, SMS....





TECHNICAL SPECIFICATIONS

PILOTSONDE

GENERAL

Dimensions : H : 120 mm Ø 30 mm
 Weight : 47 g (battery included)

TRANSMITTER

Freq range : 401.505 or 402.515 MHz
 Output Power : 20 mW
 Modulation : FSK 4800 bauds

ALTITUDE

Altitude range : Up to 20 km
 Altitude accuracy : 10 m
 Altitude resolution : 0.1 m

POWER

Technology : 1.5V alkaline
 Battery pack : 2 AAA batteries
 Power ON : ON/OFF button
 MTBF : 50 000 hrs

WIND MEASUREMENT

Method : 3D GPS
 Position accuracy : 10 m
 Wind speed accuracy : 0.1 m/s
 Wind direction accuracy : 1 °
 Position resolution : 1 m
 Wind speed resolution : 0.1m/s
 Wind direction resolution : 1°

PILOT GROUND STATION



GENERAL

Dimensions : Width: 106 mm
 : Height: 49 mm
 : Depth: 160 mm
 Weigh : 0.6 kg
 Power : USB Bus powered
 Links : USB to the PC
 Workstation : Desktop or Laptop PC

TELEMETRY

Receiver : Digital synthesizer
 Freq. range : 400 to 406 MHz
 Tracking range : 150 km
 Modulation : FSK 4800 bauds

