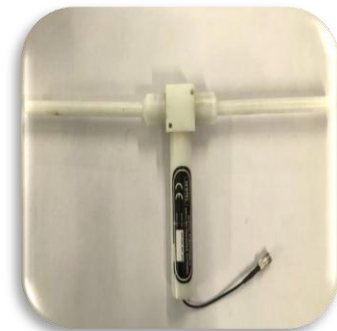


# GPS BASED PILOTSONDE T-PS-300

## Overview

The Sertel Pilotsonde is a GPS sonde dedicated in Wind measurement only. It is the most affordable solution for high quality wind profile measurement. Automatic accurate measurement of Wind direction, Wind speed, Pressure and Altitude. Reliable operation up to 30 km altitude, no interruption in clouds and / or sun glare Ground receiver self-powered by USB port of the PC. The SERTEL Pilotsonde is easily deployable in the field, the station is powered directly by the USB port of the PC, this allows measurement continuity without interruption risks linked to a power failure.



## Features

- Real time display
- High Definition resolution
- Automatic data recording and storage of raw data
- Compatible with the Ground station
- ON / OFF Power switch and authorization to release directly indicated on the Pilotsonde (led)
- Compact in Size, Thermocol package
- Battery Operated System
- Programmable Frequency
- High Accurate Measurement
- User Friendly Device
- Manual sending of message by email, FTP, RS232 and socket

## TECHNICAL SPECIFICATION

TECHNICAL DATA		WIND MEASUREMENT	
General	H : 130 mm Ø : 60	Wind Finding Options	Differential GPS Method
Weight	≤90 g (including batteries)	Pressure Resolution	0.1hpa
<b>TRANSMITTER</b>		Pressure accuracy	1.0hpa
Frequency range	400.15 MHz to 406 MHz	Geo potential height Accuracy	5m
Output power	20 mW	Method	2D GPS
Modulation	GFSK	Position accuracy	10 m
<b>ALTITUDE</b>		Wind speed accuracy	0.1 m/s
Altitude range	Up to 30 km	Wind direction accuracy	10
Altitude accuracy	10 m	position resolution	1 m
Altitude resolution	0.1 m	wind speed resolution	0.1 m/s
<b>BATTERIES</b>		wind direction resolution	10
Technology	3.6 V	Accuracy horizontal position	2.5m
Package	1 battery Li-Thionyle chloride	Pilotsonde Receiver software	SERTEL_TELMET_PS software
Power On	On/off Button	<b>TELEMETRY</b>	
<b>GENERAL RECEIVER</b>		Runtime Integrated battery pack	With GPS lock 120 minutes
Dimensions	width-106mm-Depth:160 mm- Height:49mm	Wind finding	GPS (56 channels in search mode,22 channels in tracking mode)
Weight	1.6 kg	Transmission rate	One full data packet per sec
Power	USB Bus powered	Modulation	FSK
Links	USB to PC	Output Power Telemetry	100mW
Workstation	Desktop or Laptop PC	Receiver	Digital synthesizer
Altitude		Frequency range	400 _ 406 MHz
Range	Up to 20km	Tracking range	200 km
Accuracy	5m	<b>Operating Temperature Range</b>	
Resolution	0.1m	Indoor equipment	(-)10°C to 60 <sup>0</sup> C
		Outdoor Equipment	(-)45 <sup>0</sup> C to 60 <sup>0</sup> C