



Meteomodem launches its new pilotsonde the **PS20**.

The **PS20** is a GPS sonde dedicated in wind measurement (speed and direction), pressure and altitude. It is the most affordable solution for high quality wind profil measurement.

- Meteomodem innovation, thanks to a temperature sensor allows a more accurate pressure.
- ON / OFF push button and authorization to release directly indicated on the **PS20** (led).
- Reliable operation up to 30 km altitude, no interruption in clouds and / or sun glare.
- 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 messages by email, FTP, RS232, Socket.
- Possibility to change the frequency with an infrared device.
- Compatible with the **SR10** station.



Technical specifications

GENERAL		GEOPOTENTIAL HEIGHT	
Dimensions	98 x 63 x 42 mm	Altitude range	50km
Weight	33 g (including battery)	Altitude accuracy	± 10 m
		Position accuracy	± 5 m
		Position resolution	0.01 m
TRANSMITTER :		PRESSURE : Calculated from GNSS altitude	
Compliant with european standard ETSI EN 302054		Range	1100 hPa to 3 hPa
Frequency range	400.15 MHz to 406 MHz	Resolution	0.1 hPa
Factory radio frequency	Red : 401.5 MHz Green : 402.5 MHz	Accuracy	< 1 hPa from 1100 to 100 hPa 0.3 hPa from 100 to 10 hPa 0.1 hPa < 10 hPa
Frequency step	200 kHz (option 100 kHz)	Reproducibility	0.2 hPa at 100 hPa 0.05 hPa at 10 hPa
Frequency setting	By infrared		
Maximum drift	< 5 kHz	BATTERIES	
Typical output power	110 mW	Technology	3 V lithium
Modulation	FSK	Autonomy	> 4 h in flight
		Package	1 battery
		Storage	> 3 years
WIND MEASUREMENT			
Horizontal wind accuracy	0.05 m/s		
Wind direction accuracy	0.3 °		
Horizontal wind resolution	0.01 m/s		
Wind direction resolution	0.1 °		
Measurement rate	1 Hz		
OPTION			
Infrared device for frequency change			

Messages

- Edition of WMO messages (**PILOT FM32**, **PILOT SHIP FM33**, **PILOT MOBIL FM34**, **BUFR PILOT PRESSURE 309050**, **BUFR PILOT ALTITUDE 309051**)
- Edition of STANAG messages (**MECTM - 4082**, **METB2/3 - 4061**, **METCFL**, **METK3 - 4082**, **METFM - 2103**, **MET11**, **MET44**, **METSR**)

Software

