



The main function of the **SR10** radiosounding system consists in the acquisition of PTU and wind measurements, transmitted from our radiosondes by radio telemetry.

Available in fixed and mobile version, adapting to the needs of the user.

It is compatible with all Meteomodem instruments :

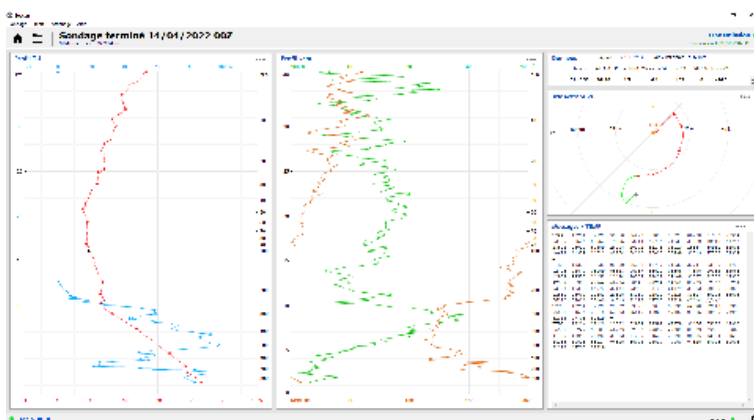
- Radiosondes M20 et M10
- Pilotesonde P520
- Dropsonde D520
- LOAC Telemetry

The radiosounding system consists of:

- A robust, compact and light **SR10** receiver, acting as a GNSS and barometer reference allowing data transmission via USB.
- A groundcheck managing the automatic frequency setting, sensor calibration and GNSS synchronization.
- A radio antenna for data reception from the radiosonde.
- A processing computer running our sounding software (Eoscan).

Our sounding software allows:

- Radiosonde preparation.
- Real time sounding display.
- WMO format messages edition (TEMP, PILOT, BUFR, CLIMAT TEMP...).
- Automatic data transmission on the network (TCP/IP).
- Former soundings replay.
- Electronics diagnosis display for facilitated maintenance.



Technical specifications

GENERAL		ELECTRONIC CONNECTIONS & INTERFACE	
Internal barometer	500-1100 hPa ± 0.3 hPa (k = 2)	PC connection	USB A 2.0
Power supply	AC voltage: 100-240 V, 50/60 Hz (AC adapter) DC voltage: 12 V, 500 mA	Antenna connection	2 X Type N 400 MHz commutable Type TNC GPS IN
Dimensions	150x185x65 mm	Groundcheck connection	Type SMA GPS OUT
Weight	1.3 kg		

TELEMETRY		SYSTEM COMPATIBILITY	
Frequency range	400.15-406 MHz	Radiosonde	M10 / M20 / PS20 / DS20
Modulation	FSK	Groundcheck	M10 / M20
		Infrared device	M20 / PS20 / DS20

ANTENNA CHARACTERISTICS			
Antenna	Omni	Vehicle	Turnstile
Dimensions	h: 930 / \varnothing 40mm \varnothing base 76mm	h: 650mm \varnothing base 70mm	h: 170mm \varnothing 330mm
Weight	740 g	580 g	1.7 kg
Range	\approx 350 km	\approx 120 km	\approx 30 km
Recommended use			
Fixe	X		
Mobile	X	X	
Low-Range	X	X	

GROUND CALIBRATION		
Features	Groundcheck M20	Infrared device
Use	- TU sensor check - GNSS initialization - Frequency change	Frequency change
Weight	680 g	163 g
Dimensions	240x165x40 mm	68x110x60 mm

Optionnal equipment

- Built-in battery (5 hours autonomy).
- GPS Antenna.
- Cigarette lighter.
- Ruggedized transport case for SR10(1).
- Tripod for antennas (2).
- Ruggedized case or bag for tripod and antenna.
- Military painting (ruggedized case, antennas, tripod).
- Desktop, laptop, or ruggedized computer.
- Manual (3) or semi-automatic (4) inflation device.

