

The new *SR20* receiver is more compact, robust and modular. The system is fitted for fixed and mobile applications whether it deals with Meteorology, Military or Research purposes.

It has been designed and built out of the latest technology to achieve the best performances.



The *SR20's* lightweight makes the ground station easy to transport and perfect for the field (rugged connectors).

The new *SR20* shows a proven field-reliability with enhanced functionalities while being compatible.

#### The radiosounding system consists of:

- A compact and light *SR20* receiver powered by USB, robust (IP65) and efficient.
- A groundcheck managing the automatic frequency setting, sensor calibration and GNSS synchronization.
- A UHF antenna for data reception from the radiosonde.
- A processing computer running our sounding software (Eoscan).

#### Our sounding software allows:

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

facilitated maintenance.



## Technical specifications

### Characteristics

Dimensions	160*116*56 mm
Weight	620 g
Color	Standard : Black On demand : Green or Sand

### Technical specifications

Internal barometer	500-1100 hPa $\pm 0.3$ hPa (k = 2)
Power supply	USB Only : 5V 350mA USB + DC IN : 5V 150mA; 9-36V 500mA
Adapter (optional)	AC IN (90-240V 0,5A) DC OUT (12V 1,5A)
USB port	USB C - SR20 to computer
Antennas connection	Push-Pull connectors
Receiver frequency	400 - 406 MHz
Range	Up to 350 km with Omnidirectional antenna Up to 120 km with mobile antenna
Modulation	FSK

### System components and compatibility

#### Necessary equipment:

Ground receiver	SR20
Computer	Windows OS
Software	Eoscan and Pilotsonde
Antenna	Telemetry Omnidirectionnal antenna

#### Optional equipment:

Antennas	<ul style="list-style-type: none"> <li>GPS antenna</li> <li>Turnstile antenna</li> <li>Mobile antenna</li> </ul>
Calibration device	Groundcheck
Frequency change	Wireless infrared
Inflation device	Manual, semi-automatic
Other accessories	<ul style="list-style-type: none"> <li>Tripod</li> <li>Ruggedized case for mobile used</li> <li>Cigarette lighter</li> </ul>

#### Compatibility:

Radiosounding	M20, M10
Pilotsounding	PS20
Dropsounding	DS20
Software	Eoscan, Pilotonde
Additional Sensors	Ozone, LOAC, CFH or any sensor using Xdata

### Operating environment

#### SR20:

Operating temperature	-20°C to +50 °C
Storage temperature	-40°C to +85°C
IP rating	IP65

#### Omnidirectional Antenna:

Operating temperature	-40°C to +85°C
Storage temperature	-40°C to +85°C
IP rating	IP54

#### Groundcheck:

Operating temperature	+5°C to +50°C
Storage temperature	-15°C to +50°C

### Meteorological messages

BUFR	309052; DROP 309053; PILOT PRESSURE 309050; PILOT Height 309051; DROP 309056; 309057
TEMP	FM35; SHIP FM36; MOBIL FM38; DROP FM37; CLIMAT FM75
PILOT STANAG	FM32; SHIP FM33; MOBIL FM34 METCM 4082; METB2/3 4061; METCFL; METTA 4140; METK3; METFM 2103, MET11, Met44; METSR; EACMM

### Transmission

Type	(S)FTP; E-mail; Sockets; RS232; Copy files, TCP/IP
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