

SelfSonde SLF-01



Features

- Embedded hydrogen generator
- Capacity to handle 66 ready-to-launch radiosondes
- Compatible with balloons of 200g to 1200g
- Remote control interface
- Real-time sounding data accessible remotely
- Pre-scheduled soundings

General	
Compatible upper air sounding system	Meteosis
Ready to launch radiosonde set capacity	66 sets (MTS30 radiosonde + unwinder + balloon)
Software	Web based
Real time observation monitoring	Can be performed by multiple remote devices
Launch schedule	Can be scheduled remotely as desired
Balloon size compatibility	Can launch balloons 200g - 1200 g
Balloon lifting gas type	Hydrogen or Helium
Hydrogen generator and dryer	Embedded (optional), no need for extra gas handling
Water tank, water purification	Embedded (optional)
Safety	Explosion protection documented Gas leak detection, alarms, leakage scenarios
Explosion protection documentation	Yes
Maximum launches per day	8 launches (with 800g balloons)
Operating software	Compatible with MET upper air sounding software

General (cont'd)

Antenna group	Helical UHF, Omni Directional UHF, GNSS
Surface observation data	Imported via embedded compact meteorological sensor
Operating temperature	-40°C to +50°C
Operating relative humidity	0% to 100%
Operating wind speed	0m/s - 20m/s
Operating under precipitation	Can operate in snow / rain
Additional operational checks	Image processing via multiple cameras and additional sensors

Electrical

Main electrical cabinet	Embedded
Power	400 VAC 50 Hz 20 A, 3-phase power supply, 230 VAC 50 Hz 60 A, 1-phase internal electrical installation
Power consumption	7600 W maximum, 1400 W average consumption
Heater	Embedded
Air conditioner with heat pump	High efficiency (A+++), Average consumption of less than 1.25 kW for heating and cooling.
UPS	Embedded

Mechanical and Structural

Robot	Low maintenance, New generation robot technology, Control units programmed with the main software.
Launcher vessel tube	2 meter diameter laminated fiberglass structure, separated from the container
Container dimensions	Customized and reinforced 20'HC container 20' x 8' x 8'6" (6058 x 2438 x 2896 mm)
Overall dimensions (Launching vessel tube included)	w: 4380 mm, l: 8850 mm, h: 5110 mm
Overall weight	6.6 ton