

# Robotsonde

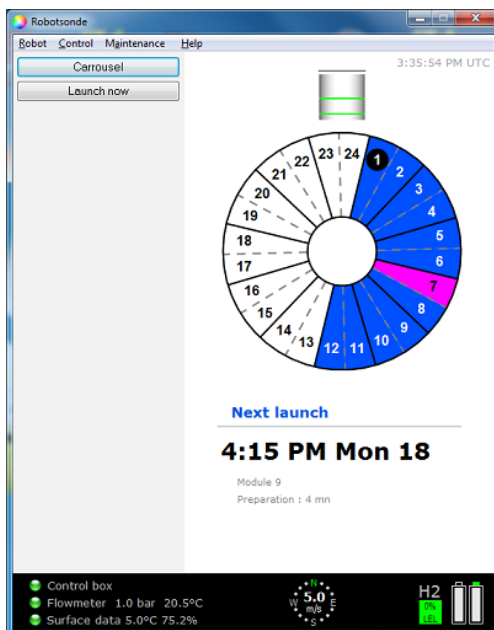


The **Robotsonde** is an automatic balloon launcher system that can perform 12 or 24 soundings scheduled or immediate. Compatible with **M10** and **M20** radiosonde.

- Remote controllable and accessible
- Make the operator's tasks easier
- Reduce the possibility of human error and wrong handling during preparation/launch phase
- Increases the percentage of successful soundings and the availability of data on the network
- Improves the safety of people especially when hydrogen is used to inflate the balloon
- Facilitate staff management during out of normal working hours (night or week-end) and/or remote location)



**Robotsonde** is built in a **robust 20' dry maritime container** and composed of the following subsystems:



- **Double-door entrance** (optional) to protect from strong winds rains, drifting snow or sandstorm.
- **Operator room** with Electronic control unit and PC workstation...
- **Carrousel** with **12 or 24 individuals removable containers** for balloon trains.
- **Launch tube** for balloon inflation and release.

# Robotsonde

## Automatic release sequence

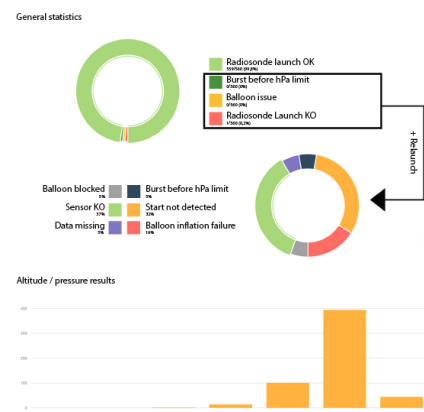
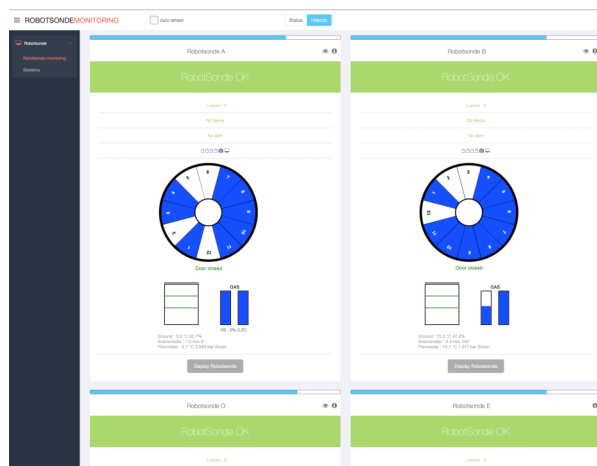
- System checking
- Wake up and verification of the sonde (sensor calibration, frequency, GPS)
- Inflation process
- Automatic release of balloon train

## Data acquisition and storage

- At the end of the flight, edition of reports and WMO coded messages (BUFR, TEMP)
- Dissemination on the GTS (FTP socket, email)
- Management of possible re-launch conditions and different balloon trains
- Sending of alert message in case of problem

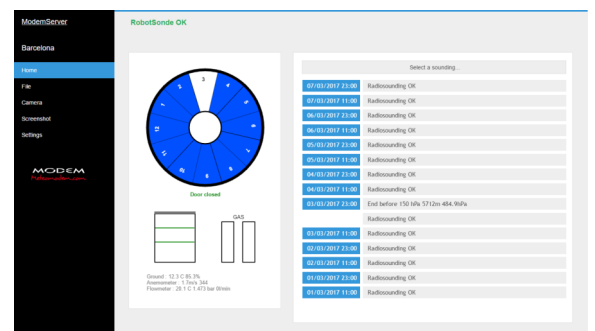
## Remote supervision

**Robotsonde monitoring:** Monitor several **Robotsonde** systems at the same time remotely from a webpage (password protected), get real time information on several Robotsonde systems status, download available sounding files and generate statistics of operation over a settable period.



## Modem server enables you to :

- Access a specific **Robotsonde** system and to configure the monitoring : (email alerts and recipients).
- Access the general state of the system in order to monitor possible on going issues or potential blocking failures from a maintenance point of view.
- Access the camera, taking pictures.
- Take screenshots of the local system computer.
- To check and download the soundings files available.



## GENERAL INFORMATION

Dimensions	: Width : 2.44 m Length : 6.00 m
Launch Tube Diameter	: 2.00 m
Height during transport	: 3.10 m
Total height with launcher tube	: 3.60 m
Gross weight with launcher tube	: 3.5 T
Electrical consumption	: < 1 kW (without air conditioning)