

Installation of a BaRos (english version)

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1- Brief description of a standard BaRos

BaRos standard system is an automated, independent and autonomous measurement of atmospheric pressure on a surface ship. Every hour, this system measures the pressure, records the position and transmits a binary message, Iridium SBD 's type, message that will be stripped by the CMM then transmitted over the GTS.

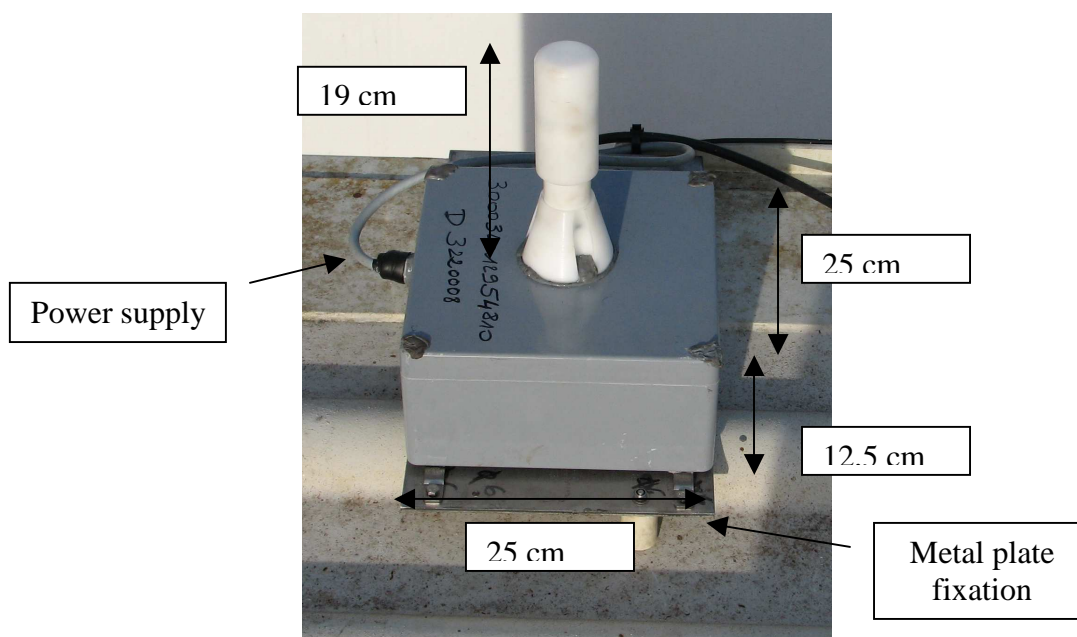


fig. 1- BaRos box

Box size: 25 cm x 25 cm x 12,5 cm.

It is topped with an air intake for the barometer (cylinder ~ 19cm high).

Weight : ~ 5 kg

2- The standard BaRos kit

It contains :

- A tight enclosure (BaRos box) within which are a barometer, aGPS and an Iridium modem. There are 2 versions: 12V or 24V. This box must be installed outside (see §3). The GPS and Iridium antennas are inside the BaRos box.
- The power supply (TRACO: 220V AC / 12 V DC), in case of a 12V BaRos. This supply is not waterproof.
- A wire of about 10m to link the housing BaRos to power.
- A metal plate fixation.

This kit is provided to end users.

3- Choose the location of the housing BaRos

Each installation is different depending on the ship on which the kit is installed. The installation is based on the following. It must:

- be clear on the outside, allowing the GPS receiver and transmit / receive messages via the Iridium modem,
- be located within 10m of power supply,
- allow easy fixing on the building, without too many infrastructures (the ideal is to mount the BaRos box on the metallic support, itself fixed to the ship).

4- The various facilities available

The standard BaRos can be installed either vertically or horizontally.

The photos 2 to 5 below show different installations.



fig. 2 - BaRos set horizontally on a bridge

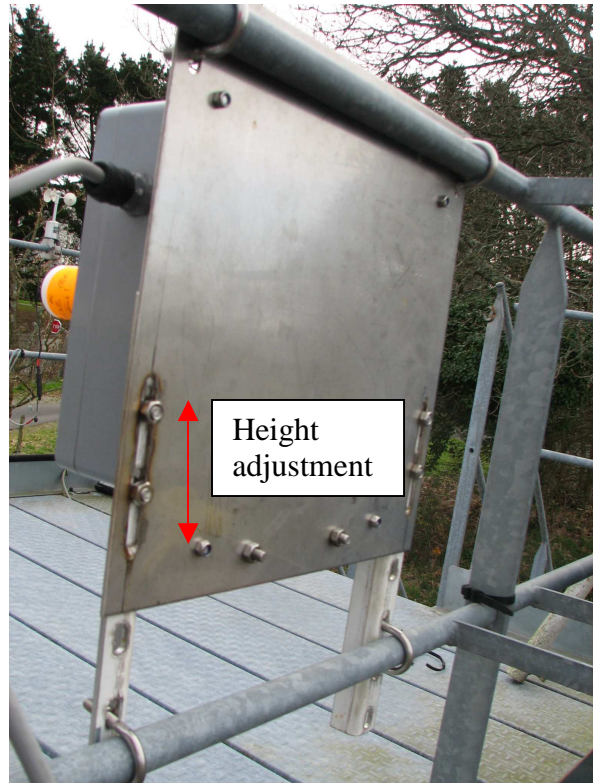
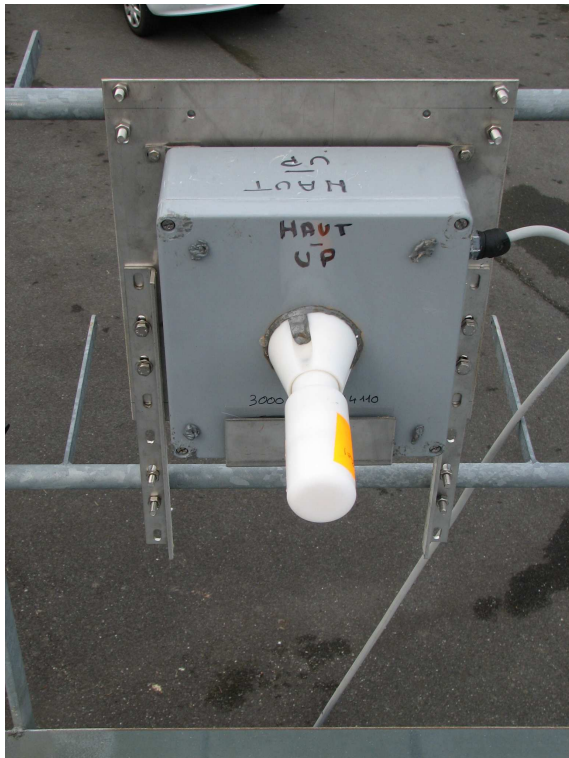


fig. 3,4 - BaRos fixed vertically on a railing



fig. 5 - BaRos fixed vertically on a mast

5- Power supply (220V AC → 12V DC)

The TRACO power supply must be arranged in a tight spot (see fig. 5 below) or a watertight box (see fig. 3 & 4 above: waterproof case below the BaRos box).



fig.6 – TRACO powered in a tight area

6- Conclusion

Once the installation location is chosen, desired voltage (12V or 24V) and orientation (horizontal or vertical) must be specified.

For questions, please contact:

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