USER MANUAL

PORTABLE INSTRUMENT: APW

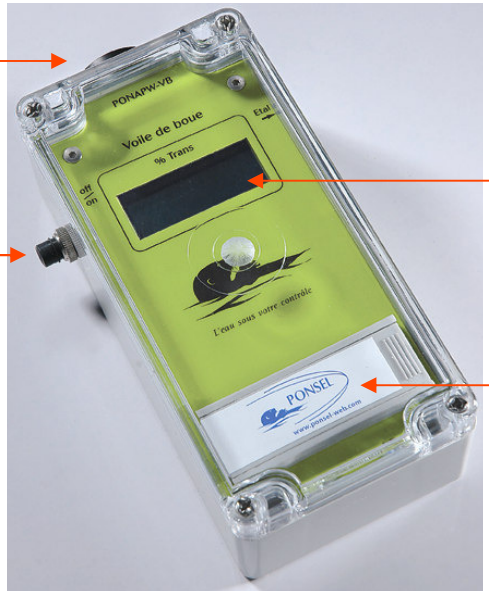
APW-VB

AUTONOMOUS SLUDGE BLANKET DETECTOR

CONTROL BOX

(1) SB sensor connexion

(2) ON/OFF button

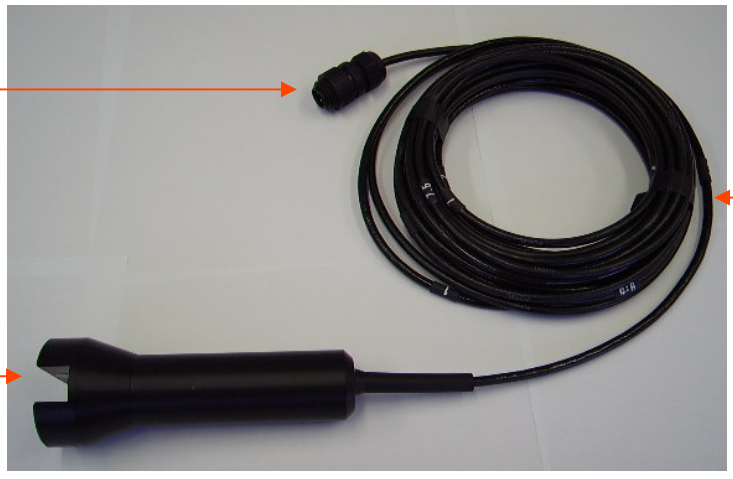


(3) Calibration potentiometer « Etal »

(4) 9V battery compartment

SENSOR + CABLE

Connector



Cable (10 m)

SB optical sensor

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Powering up the device

- This sensor is delivered connected to the control box in its case. (**PONVM2**). Between 2 utilizations, keep the sensor connected to the control box.
- Push the button Off/On (**2**).

Calibration

Full transmission calibration

- Check the sensor. Clean it if necessary.
- Dip the whole probe in clearwater and making sure that there aren't any bubbles both in the liquid and on the sensor.
- After the signal stabilisation, 100% of transmission must be indicated. Otherwise, adjust the value to 100% using the potentiometer.

0% transmission checking

- Occult optical glasses using a rag (for example) in order to stop the light flux (like a very concentrated sludge).
- This 0% value is long-time stable because independant of optical fouling (no recalibration is needed).

Measures

- Submerge the sensor to enter the sludge (the signal suddenly decrease).
- The sludge blanket level is read using cable measuring markings.

Maintenance

Sensor: *PONCIR-VB5-S10*

- Clean the probe and the optical lens using a sponge with soap water. Then clean the optical lens with a soft linen in order not to scratch.

Battery change

- The « LOBAT » indicator on the display indicates that the battery could be change : remove the transparent cover, open the battery compartment (**4**) and replace the 9 V battery (6LR61).

Observation: It is normal to see « LOBAT » on the display for a short time during the switching-off.

Control box and connectors

- Keep connectors dry and clean or connected if possible.
- A temperature above 80°C could make the control box worse.

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