



Water Level indicator OG10, OG10M & Thermometer OG15



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Water Level indicator OG10, OG10M & Thermometer OG15



WARNINGS



This instrument must be utilized only for the application it has been designed for, OTR declines all responsibility for any improper use;



Do not let the instrument fall into the hole quickly.



Don't insert the instrument in explosive or flammable liquids. Use it only in water.



Do not use the instrument in water where an electric dissipation is in progress.



Use protective gloves; Don't haste manipulate the cable without gloves

Furthermore

- Do not open the instrument, contact the manufacturer for checks and repairs;
- Keep out of reach of children;
- Clean the instrument and its cable with alcohol or water, do not use acetone or aggressive liquids for plastics or labels;

Application

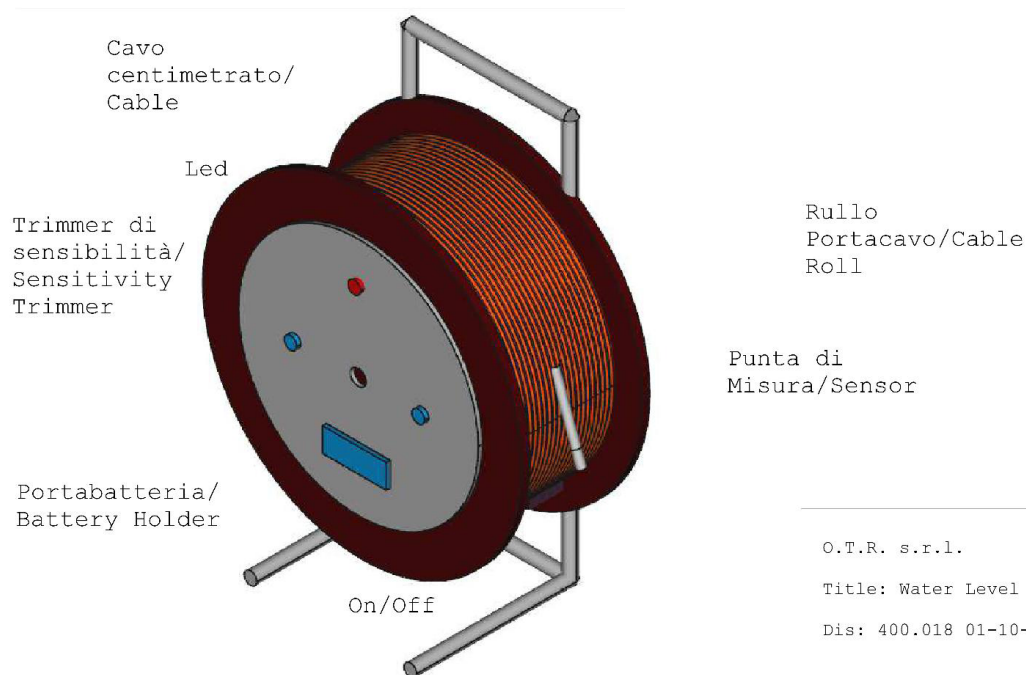
OG10, OG10M and OG15 are used where it is necessary to measure the level of the water and its temperature in piezometers or wells,



Description



OG10 Water Level Indicator



O.T.R. s.r.l.

Title: Water Level Indicator

Dis: 400.018 01-10-2017

Device is composed of :

- Measuring Probe;
- Battery and Battery Holder (alkaline 9V PP3 mode);
- Sensitivity trimmer for water detection (turn clockwise to increase sensitivity)
- Buzzer and high brightness LED for water detection;
- Temperature Display (model OG15)
- Switch for Water Level Indicator (F), OFF /central position, temperature indicator (T).

Identification

Every water level indicator have a label that reports:

- Serial number associated with test and calibration;
- Identification of the model (OG10-OG10M-OG15);
- Unit of measure ($^{\circ}\text{C}$);
- Installed cable (30-50-100-150-200-250-300 m).



Water Level's Measure

- Turn On device turning the switch in F ;
- Fall the probe in the pipe/hole to inspect;
- When the probe will meet the water the Buzzer sounds and the LED turns on;
- Recover the probe of some centimeters till the Buzzer turn off;
- Fall the probe again slowly till the Buzzer and LED turn on again
- Read the value on the cable;
- Indication on the cable has done as this example:
0000I10 I I I I V I I I I0000I20
- numbers after I are centimeters then I -> centimeters, V 5 centimeters, numbers before I are meters.
- In case of millimetrated cable the measure indication will be similar to the tape meter measure

Temperature's Measure

- Turn On device turning the switch in T ;
- Readout the themperatour on the Display
- Wait that temperature on display is stable;
- 4Turn OFF device positioning the switch in the central position.



Instrument Calibration

The working principle of water level indicator is based on conductivity of the water. Factory calibration has done using a water with approximately conductivity of 600 μS . It is possible that calibration is needed if this value is very different from factor calibration water:

1) Low conductivity water (e.g. water in mountains), water level indicator does not sound or it sounds not continuously:

- Take a sample of water of it is impossible make a calibration on site;
- Put the probe in the water;
- Rotate the sensitivity trimmer (grey screw on the panel) clockwise (higher sensitivity) till the sound is high and continuous;
- Rotate slowly the trimmer anticlockwise slowly till the instrument does not sound more;
- Rotate slowly the sensitivity trimmer clockwise till the sound is high and continuous;

2) High conductivity water (e.g. contaminated water or water with naturally high salinity), the instrument sounds even after the probe has been extracted from water:

- Take a sample of water of it is impossible make a calibration on site;
- Put the probe in the water;
- Rotate the trimmer anticlockwise (lower sensitivity) slowly till the instrument does not sound more;
- Rotate slowly the sensitivity trimmer clockwise till the sound is high and continuous;

Maintenance and Battery Replacement

- Turn off the device then open the grey battery holder, extract the old battery and change it. Use just 9V PP3 alkaline batteries. Keep instrument, cable and probe clean and dry when it is not used. If not used for long time extract the battery.

