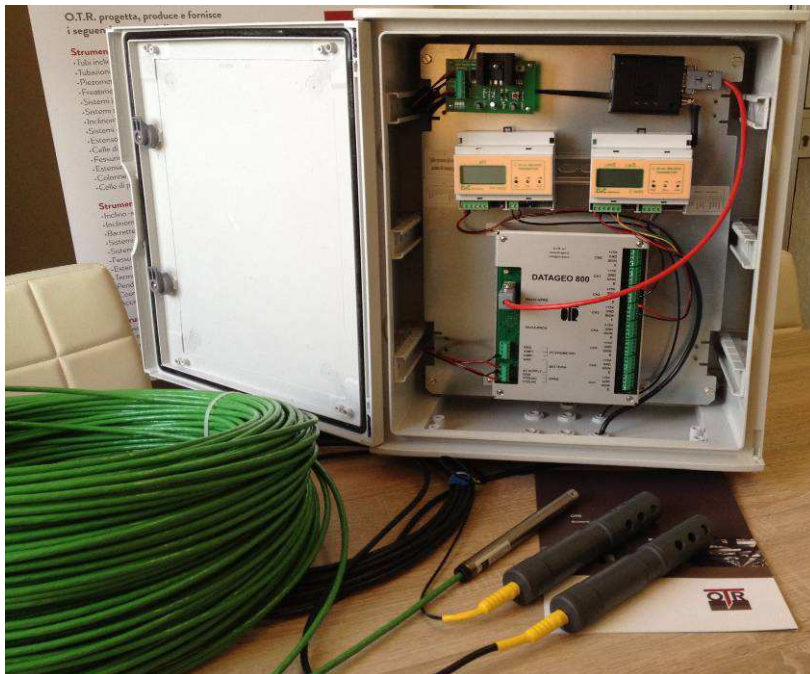


Multiparameter Probes

for water quality



Applications

OTR provides Multiparameter probes to detect the quality of water, supplied with Data acquisition systems and data transmission on the FTP site for measuring the following parameters:

- Water level
- Temperature
- Conductivity
- PH
- Redox
- Dissolved oxygen

Technical features

The measuring system for water quality consists of multiparameter probes equipped with as many as 6 parameters simultaneously, water level, temperature, conductivity, pH, ORP (Oxidation Reduction Potential), dissolved oxygen and a Datalogger with GSM/GPRS on FTP site. The conductivity is already compensated for temperature sensor PT100 thanks to the internal probe and the proper circuit.

Software configuration and programming of the system to measure the quality of water is intuitive and compatible with all the operating systems commonly in use. The low power consumption allows a high range (about 1 year @ 4 scans per day). The GPRS data transmission on any FTP site is available with modem and solar panel, you can also set the data transmission without solar panel module and battery usage. The data logger has a relay multiplexer. This feature allows you, if a sensor is damaged or destroyed, the remaining sensors that remain intact and continue to function properly. The system is compatible with the service **MyOtr** for the management data with the Web server.

Installation

The measuring system for water quality is easy to use, the sensors once installed are connected directly to the Datalogger that can be placed in proximity of the sensors to be monitored. After a simple scan time and the type of sensor connected to the system is ready for use.

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Technical specifications

Water level



- range 2,5,10,20,50,100 m H²O
- Overload 100% FS
- Output 4-20 mA
- Power supply 13-30 Vdc
- No Linearity 0.3 % FS
- Long-term stability 0.1% FS (1 anno)
- Operating temperature from 0°C to +70 °C
- Material body and diaphragm Stainless steel AISI316
- Diameter probe 22 mm

Thermometer



- Sensor PT100
- Diameter sensor 12 mm
- Round cable with kevlar core (Ø 4mm)
- Range from -5°- to +65 °C
- Resolution 0.1 °C
- Accuracy ±0.2 °C

Conductivity



- Electrodes, plans concentric graphite
- K cell, +/- 1 0:15
- Body cell plastic
- Temperature compensation Automatic
- Max pressure 10 bar temp. environment
- Full Scale 0-200, 0-2000, 0-20000 uS selectable
- Probe diameter 35 mm
- Output 4-20 mA 2-wire
- Accuracy 1% FS
- Calibration with trimmer on the transmitter
- Maximum distance probe-transmitter 20 meters

PH



- Membrane GX2
- R membrane <300 Mhom at 25° C
- Reference Ag / AgCl
- Measuring range from 0 to 13 PH
- temperature from -5 ° C to 100°C
- Operating pressure 6 bar at 25°C
- Sensor length 110 mm
- Diameter 35 mm

Datalogger

- Microprocessor R3000
- Number of channels 4 to 7 channels measured in mV or 4-20 mA individually selectable
- Resolution 4096 points of 0-2048 Volts
- Input 0-2 Vdc, 0-20 mA
- Sensor supply +15 V or +12 Volt
- Temperature stability <30 ppm / ° C
- Operating temperature -20C ° to + 55C °
- Memory 512 Kb flash, 512 Kb RAM buffered
- Power 6Vdc rechargeable sealed lead acid battery, solar panel as needed
- Consumption <200 micro amps on standby and 90mA in full use
- telephone module GSM / GPRS
- Charge batteries 7.2 volt linear

Multiparameter Probe

Multiparameter probe diameter 80 mm with data transmission in 485 acquirable through Datalogger D800 to measure and log data for as many as 6 parameters simultaneously with one single probe:

- Level
- Temperature
- Conductivity
- PH
- Redox
- Dissolved oxygen livello



Multiparameter Probe
(Code OCONST00000)