PHYSEO

MULTIPARAMETER ANALYSIS: PH, CONDUCTIVITY, DISSOLVED OXYGEN, TEMPERATURE...

- Wide range of measurement
- High precision and repeatability
- Fast response time
- Compact size
PHYSEO is a compact transmitter allowing measurements of physico-chemical parameters in water: pH, conductivity, dissolved oxygen, temperature, water level, .... Up to 4 parameters can be simultaneously monitored. The Physéo built-in calculator insures the supervision of all measurement functions leading to a very simple use. Measurement results can be reported in the unit that fits the best with the process exploitation: ppm DO₂ or in % sat DO₂ for the dissolved oxygen for example. Its stainless steel 316L enclosure insures maximal protection of the instrument whatever the conditions of environment are, while insuring a perfect recyclability at the end of life.

**MAIN APPLICATIONS**
- Drinking water treatment plants
- Waste water treatment plants
- Industrial water monitoring
- River water monitoring
- Rain water monitoring

**BUILT-IN DATALOGGER**
Measurement results are dated and stored in a static memory with a capacity of 10,000 measurements. They can be transferred later via the RS232 link on a PC without specific software using Hyperterminal® of Windows®.

**RESULTS TRANSFER**
The RS232 link allows results transfer for a short distance. The transfer of the results for long distance is possible with the RS485 link. 4 analog current or voltage outputs are available without intermediate treatment. Alarm and Fault relays are also available.

**RANGES**
- **pH**: 0 – 14
- **Conductivity**: 0 – 2000 µS/cm (other ranges on request)
- **Dissolved oxygen**: 0 – 25 ppm or 0 – 200 % SAT
- **Temperature**: -10 – +120 °C

**ACCURACY**
- **pH**: ± 0.02 pH
- **Conductivité**: ± 0.2 µS/cm
- **Dissolved oxygen**: ± 0.02 ppm
- **Temperature**: ± 0.02 °C

**ANALOG CURRENT OUTPUTS**
Until 4 configurable and isolated measurement outputs: 0-10V, 12 bits resolution, 1000 Ω impedance minimum

**ANALOG VOLTAGE OUTPUTS**
Until 4 configurable and isolated measurement outputs: 0-20mA (or 4-20 mA) 12 bits resolution, 15V max output voltage, 500 Ω impedance maximum

**OUTPUTS RELAYS**
Double contact relay (48VAC or 48VDC max, 3AAC or 3ADC max, 150VA max):
- 1 power supply default relay
- 4 measurement relays (multiple configuration)
- 4 cleaning relays (configurable in period and duration)

**COMMUNICATION**
Port RS232 or RS485 for measurement results transfer and parameter setting.

**POWER SUPPLY**
Physéo uses 100 – 240 VAC 50/60Hz power feeding.

**DISPLAY**
Measurements can be displayed on the screen showing all data stored in a form of list of values or graph.

**PARAMETER SETTING**
Probe operating parameters adjustment can be made either directly on the transmitter by using the keyboard or by the dedicated communication connection (RS232 or RS485).

**CLEANING FUNCTION**
For each probe, an automatic cleaning cycle can be defined. This cycle consists in a controlled activation of a relay which managed an external cleaning system.