



# PHYSEO

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

- Wide range of measurement
- High precision and repeatability
- Fast response time
- Compact size

*datalink  
instruments*



**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 DO<sub>2</sub> or in % sat DO<sub>2</sub> 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<sup>®</sup> of Windows<sup>®</sup>

#### 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.

#### POWER SUPPLY

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

#### DISPLAY

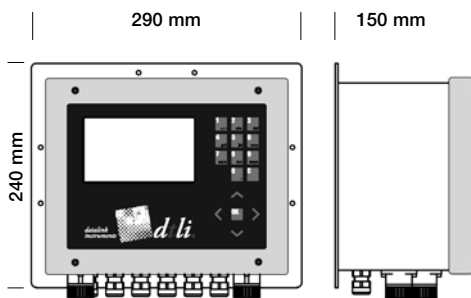
Measurements can be displayed on the screen showing all data stored in a form of list of values or graph.

#### 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.



|                                  |   |  |
|----------------------------------|---|--|
| <b>Ranges</b>                    | <b>pH</b>   | 0 – 14                                   |
|                                  | <b>Conductivity</b>   | 0 – 2000 µS/cm (other ranges on request) |
|                                  | <b>Dissolved oxygen</b>   | 0 – 25 ppm ou 0 – 200 % SAT              |
|                                  | <b>Temperature</b>  | -10 – +120 °C                            |
| <b>Accuracy</b>                  | <b>pH</b>   | ± 0,02 pH                                |
|                                  | <b>Conductivité</b>   | ± 0,2 µS/cm                              |
|                                  | <b>Dissolved oxygen</b>   | ± 0,02 ppm                               |
|                                  | <b>Temperature</b>  | ± 0,02 °C                                |
| <b>Analog current outputs</b>    | Until 4 configurable and isolated measurement outputs : 0-10V, 12 bits resolution, 1000 Ω impedance minimum   |  |
| <b>Analog voltage outputs</b>    | Until 4 configurable and isolated measurement outputs: 0-20mA (or 4-20 mA) 12 bits resolution, 15V max output voltage, 500 Ω impedance maximum  |  |
| <b>Outputs Relays</b>            | Double contact relay (48VAC or 48VDC max, 3AAC or 3ADC max, 150VA max):<br><ul style="list-style-type: none"> <li>■ 1 power supply default relay</li> <li>■ 4 measurement relays (multiple configuration)</li> <li>■ 4 cleaning relays (configurable in period and duration)</li> </ul> |  |
| <b>Communication</b>             | Port RS232 or RS485 for measurement results transfer and parameter setting  |  |
| <b>Power supply</b>              | 110 – 120 V / 220 – 240 / 50 - 60Hz / 30 VA   |  |
| <b>Environmental temperature</b> | - 10 - + 60 °C  |  |
| <b>Protection</b>                | IP65  |  |
| <b>Weight</b>                    | 5 kg  |  |

