



## TRIPOD

**NUMERICAL  
MULTIPARAMETER PROBE**  
NUMERICAL TECHNOLOGY  
FOR ENHANCED  
RELIABILITY MEASURES

*RANGE DIGISENS / DATASHEET*

### MEASURED PARAMETERS

Temperature / pH, ORP / Conductivity, salinity, TDS / Oxygen (% Sat, ppm, mg/L) / Turbidity (NTU, FNU), SS (mg/L)

### FIELD OF APPLICATIONS

Wastewater / Surface water / FishFarming, Aquaculture / Drinking water

### MULTIPARAMETER PROBE

The new numerical TRIPOD of PONSEL MESURE allows to measure until 9 physico-chemical parameters in the same time dedicated to the quality of waters among the following ones: pH, ORP, Temperature, DO (by optical way), turbidity ( NTU / FNU), Turbidity ( mg / L ), conductivity, salinity, TDS...

### READY TO BE CONNECTED

Compact, robust and communicating in Modbus R485 or SDI12 the TRIPOD can be associated with every type of terminal with inlet RS485 Modbus (automation of remote processing, transmitter, to logger) or SDI12 (acquisition device, logger with transmission GSM / GPRS, sampler ISCO, flowmeter).

Resisting the disturbances: a pre-amplification is integrated into the sensor and the digital processing of the signals allows an extreme fiabilisation of the measures.

The TRIPOD associated with the handheld multiparameters ODEON allows an optimization and a fiabilisation of your physico-chemical measures : important capacity of recording (until 100 000) and large autonomy.

ADVANTAGES



- Measure until 9 parameters with the same probe
- Technology of oxygen measure by optical way
- Numerical communication Modbus RS-485 and SDI12
- Compact, strong and tight probe

## SENSORS TECHNICAL CHARACTERISTICS

|            | Parameter            | Range  | Accuracy                    | Sensor   |
|------------|----------------------|--|-----------------------------|--|
| PH/ORP/T°C | Temperature          | 0,00 to + 50,00 °C   | ± 0,1°C                     | NTC Inox   |
|            | pH                   | 0,00 to 14,00 pH   | ± 0,1                       | plasticized PONSEL "PLASTOGEL" ® electrolyte Ag / AgCl reference       |
|            | ORP                  | - 1000,0 to + 1000,0 mV  | ± 2 mV                      | Platinum electrode Ag / AgCl reference                                 |
| OPTOD      | Dissolved Oxygen/T°C | 0,00 to 20,00 mg/L<br>0,0 to 200,0 % SAT   | ± 0,1 mg/L<br>± 1 %         | PONSEL OPTOD optical luminescence technology ASTM D888 – 05 Compliance |
| C4E        | Conductivity         | 0,0 to 200,0 µS/cm<br>0 to 2 000 µS/cm<br>0,00 to 20,00 mS/cm<br>0,0 to 200,0 mS/cm                      | ± 1 % of the full scale     | C4E Technology 4 electrodes (2 platinum and 2 graphite)                |
|            | Salinity             | 5,00 - 60,00 ppt   | ± 1 % of the full scale     | C4E Technology 4 electrodes (2 platinum and 2 graphite)                |
| NTU        | Turbidity            | 0,00 to 50,0 NTU<br>0,0 to 200,0 NTU<br>0 to 1000 NTU<br>0 to 4000 NTU<br>AUTOMATIC<br>Range 0-4500 mg/L | ± 1 % of the full scale NTU | IR 90° technology ISO 7027 compliance                                  |

### Probe

|                       |  |
|-----------------------|--|
| Interface signal      | Modbus RS485 /SDI12  |
| Measurement frequency | < 1 s max  |
| Power supply          | 5-12 Volts   |
| Dimensions            | Diameter max. 75 mm, Length (without hook) 288 mm, Length with hook 394 mm             |
| Weight                | 1300 g   |
| Material              | EPDM, PVC, Inox  |
| Pressure              | 5 bars   |
| Connection            | 9 armoured connectors, polyurethane jacket, bare-wires or waterproof Fischer Connector |
| Protection            | IP68   |

### WIRING DIAGRAM

