

## Digital sensor

# PHEHT : PH, REDOX & TEMPERATURE

Digital Technology for optimized measures

- Combined pH/Redox/temperature sensor

- range :

**pH** : 0,00 to 14,00 pH ;

**Rédox** : - 1000 to + 1000 mV ;

**T°C** : -10,00 to + 50,00°C

- Modbus RS-485 protocol

- Calibration data inside

- pH/ORP Cartridge



### Application :

- Urban wastewater.
- Industrial effluents
- Natural water
- Seawater

### Technologie physico-chimique :

The comined pH/Redox/Temp sensor is used in widely used in wastewater, natural water

The reference use an Ag/AgCl gelled electrolyte ( KCl "PLASTOGEL"<sup>®</sup>) for optimum measurement stability and durability.

The Redox sensor has a platinum top cathode for fast or On/OFF measurement applications.

### Digital Technology :

The "smart" pH/Redox/Temp sensor stores calibration and history data within the sensor. This allows you a "plug and play" system without re-calibration.

Thanks to the Universal Modbus RS485 protocol, the PONSEL pH/Redox/T sensor can be connected to all devices commonly used (Datalogger, Controller, Automat, Remote System...).

### Technical features :

pH	
Measure principale	Combined electrode (pH/ref) : special glass, Ag/AgCl ref. Gelled electrolyte (KCl)
Range	0 – 14 pH
Resolution	0,01 pH
Accuracy	+/- 0,1 pH
Response time	< 5 s
Redox	
Measure principale	Combined electrode (Rédox/référence) : Platinum tip, Ag/AgCl AgAgCl. Gelled electrolyte (KCl)
Range	- 1000,0 to + 1000,0 mV
Resolution	0,1 mV
Accuracy	± 2 mV
Response time	< 5 s
Temperature	
technology	CTN
Range	0,00 °C à + 50,00°C
Resolution	0,01 °C
Accuracy	± 0,5 °C
Response time	< 5 s
Storage temperature	0°C to + 60°C
Protection	IP 68
Interface	Modbus RS-485 / SDI-12 (option)
Power supply	5 to 12 volts

Sensor	
Dimensions	Diameter : 27 mm ; Lenght : 159 mm
Weight	350 g (capteur + câble)
Material	PVC, special pH glass, platinum
Pressure	5 bars
Cable	Coaxial armoured, Polyurethane, bare wire or Fisher connector
Protection	IP68

