

PHEHT/PH, REDOX & **TEMPERATURE DIGITAL TECHNOLOGY**

RANGE DIGISENS / DATASHEET

FOR OPTIMIZED MEASURES



The PHEH sensor has been designed to perform under hard conditions from pure mountains water with conductivity as low as 20 μ S/cm, lakes and rivers (100 - 2000 μ S/cm), seawater with conductivities of 50 mS/cm and to wastewater with conductivity higher than 200 mS/cm.

This sensor features a "long life" reference. The Plastogel® PONSEL technology increases the lifetime of the probe the need to refill.

ir This been th This sensor has been designed also for handheld and in situ applications which have been the most difficult situations for a pH/ORP sensor in term of sensor resistance, quick time response, minimal flow dependence and low power consumption.

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...).

RANGE

- •pH:0 to 14 units
- •Redox: 1000 to + 1000 mV;
- •T°C:-10°C to +50°C



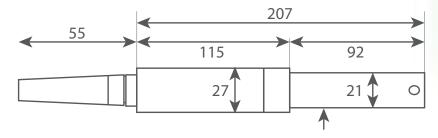
- Combination pH/Redox/Temp sensor
- Digital Sensor: Modbus RS 485 / SDI-12
- Calibration data inside
- pH/ORP Cartridge



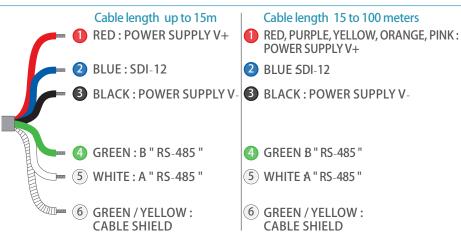
TECHNICAL FEATURES

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Measure principle	Combined electrode (pH/ref): special glass, Ag/AgCI ref. Gelled electrolyte (KCI)
Range	0 – 14 pH
Resolution	•
	0,01 pH
Accuracy Redox	± 0,1 pH
	Combined electrode (Deday/reference), Platinum tip Ag/Ag(L Colled
Measure principle	Combined electrode (Redox/reference): Platinum tip, Ag/AgCI. Gelled reference (KCI)
Range	- 1000 to + 1000 mV
Resolution	0,1 mV
Accuracy	±2 mV
Temperature	
Technology	NTC
Range	0,00 °C to + 50,00°C
Resolution	0,01 °C
Accuracy	±0,5 ℃
Response time	<5s
Storage temperature	0°C to + 60°C
Protection	IP 68
Interface	Modbus RS-485 / SDI-12 (option)
Power supply	5 to 12 volts
Power consumption	Standby: 25µA
	Average RS485 (1 measure/seconde): 3,9 mA
	Average SDI12 (1 measure/seconde): 6,8 mA
	Current pulse: 500 mA
Sensor	
Dimensions	Diameter: 27 / 21 mm; Length: 207 mm
Weight	350 g (sensor + 3 m cable)
Material	PVC, DELRIN, special pH glass, platinum, polyamide
Pressure	5 bars
Cable	Coaxial armoured, Polyurethane, bare wire or Fischer connector
Protection	IP68

DIMENSIONS



WIRING DIAGRAM





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