



## Datasheet water quality probe PHEHT

### **PHEHT : PH, ORP & TEMPERATURE** Digital Technology (with 4 electrodes) for optimized measures

- Combined sensor : pH, ORP & Temperature
- Measuring ranges :  
**pH** : 0,00 à 14,00 pH ;  
**ORP** : - 1000 à + 1000 mV ;  
**T°C** : -10,00 à + 50,00°C
- Changable Plastogel cartridge
- Digital sensor / Modbus RS-485



#### **Application :**

- Urban wastewater treatment
- Industrial effluent treatment
- Deodorization treatments
- Natural water
- Drinking water

#### **Physico-chemical probes:**

The sensor has reference electrode, used for the pH and ORP measures, type Ag/AgCl with laminated electrolyte, saturated in KCl "PLASTOGEL".

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

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 / integrated transmitter :**

The sensor connect to the loggers of the LOG V3 range on Modbus RS485 input. It can also be connected to all devices commonly used (Controller, Automat, Remote System...).



### pH

Measure principle	Combined electrode (pH/ref) : special glass, Ag/AgCl ref. Gelled electrolyte (KCl)
<b>Range</b>	<b>0 - 14 pH</b>
Resolution	0,01 pH
Accuracy	+/- 0,1 pH

### ORP

Measure principle	Combined electrode (ORP/reference) : Platinum tip, Ag/AgCl AgAgCl. Gelled reference (KCl)
<b>Range</b>	<b>- 1000 to + 1000 mV</b>
Working temperature	0°C to + 50°C
Resolution	0,1 mV
Accuracy	+/- 0,5°C
Response time	< 5 s
Storage temperature	0°C to + 60°C
Protection	IP68

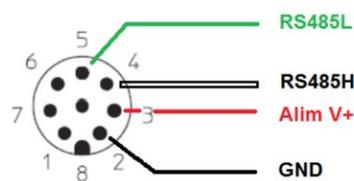
### Sensor

Dimensions	Diameter : 27 / 21 mm ; Length : 207 mm
Weight	350g (sensor + 3m cable)
Housing	PVC, DELRIN, special pH glass, platinum, polyamide
Max pressure	5 bars
Indice de protection	IP68

#### Dimensions



#### Wiring diagram



Connector M12 8Pts male view

2	Black	GND
3	Red	Power supply V+
4	White	RS485H
5	Green	RS485L