

## RANGE DIGISENS

### PHEHT : PH, REDOX & TEMPERATURE

Digital Technology for optimized measures

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

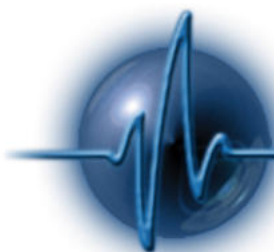


- **Range :**
  - **pH :** 0 to 14 units
  - **Redox :** - 1000 to + 1000 mV ;
  - **T°C :** -10°C to +50°C

#### Introduction :

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 features a “long life” reference. The Plastogel® technology increase the lifetime of the probe the need to refill.



# SMART STORM LTD

## WASTE WATER SOLUTIONS

### Technical features

pH	
Measure principle	Combined electrode (pH/ref) : special glass, Ag/AgCl ref. Gelled electrolyte (KCl)
Range	0 – 14 pH
Resolution	0,01 pH
Accuracy	+/- 0,1 pH
Redox	
Measure principle	Combined electrode (Redox/reference) : Platinum tip, Ag/AgCl AgAgCl. Gelled reference (KCl)
Range	- 1000 to + 1000 mV
Resolution	0,1 mV
Accuracy	± 2 mV
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
Power consumption	Standby : 25µA Average RS485 (1 measure/seconde) : 3,9 mA Current pulse : 500 mA

Sensor	
Dimensions	Diameter : 27 / 21 mm ; Lenght : 207 mm
Weight	350 g (sensor + 3 m cable)
Material	PVC, special pH glass, platinum
Pressure	5 bars
Cable	Coaxial armoured, Polyurethane, bare wire or Fisher connector
Protection	IP68

Dimensions	Wiring diagram																												
	<p><b>Cable lenght 15 to 100 meters</b></p> <table border="1"> <tr> <td>Red</td> <td rowspan="5">Power supply V+</td> </tr> <tr> <td>Purple</td> </tr> <tr> <td>Yellow</td> </tr> <tr> <td>Orange</td> </tr> <tr> <td>pink</td> </tr> <tr> <td>2</td> <td>SDI-12</td> </tr> <tr> <td>3</td> <td>Power supply V-</td> </tr> <tr> <td>4</td> <td>B " RS-485 "</td> </tr> <tr> <td>5</td> <td>A " RS-485 "</td> </tr> <tr> <td>6</td> <td>Cable shield</td> </tr> </table> <p><b>Cable length up to 15m</b></p> <table border="1"> <tr> <td>1</td> <td>V+</td> </tr> <tr> <td>2</td> <td>SDI-12</td> </tr> <tr> <td>3</td> <td>V-</td> </tr> <tr> <td>4</td> <td>B « RS-485 »</td> </tr> <tr> <td>5</td> <td>A « RS-485 »</td> </tr> <tr> <td>6</td> <td>Cable shield</td> </tr> </table>	Red	Power supply V+	Purple	Yellow	Orange	pink	2	SDI-12	3	Power supply V-	4	B " RS-485 "	5	A " RS-485 "	6	Cable shield	1	V+	2	SDI-12	3	V-	4	B « RS-485 »	5	A « RS-485 »	6	Cable shield
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