

DIGISENS RANGE

OPTOD : OPTICAL DISSOLVED OXYGEN

Digital technology for optimized measures

- Optical Technology without calibration
- Digital Technology (Modbus RS-485)
- No drift, Reduced maintenance
- Robust, for field applications

Applications :

- Urban wastewater treatment
- Industrial effluent treatment
- Surface water monitoring
- Drinking water

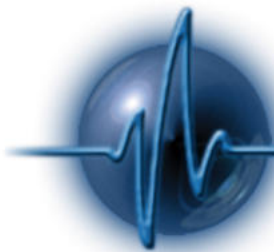
Optical technology :

The **OPTOD**[®] (Optical Dissolved Oxygen technology) is based on luminescent optical technology. The OPTOD sensor is approved by the ASTM International Method D888-05.

Without calibration requirements and thanks to an ultra low power technology, the OPTOD sensor meets the demands of field works and short or long term campaigns.

Without oxygen consumption, this technology allows you an accurate measure in all situation and especially in very low oxygen concentrations





SMART STORM LTD

WASTE WATER SOLUTIONS

Ponsel OPTOD specifications :

Measures	
Measure principle	Optical measure by luminescence
Measure ranges	0,00 to 20,00 mg/L 0,00 to 20,00 ppm 0-200%
Resolution	0,01
Accuracy	+/- 0,1mg/L +/- 0,1 ppm +/- 1 %
Response time	90% of the value in less than 60 seconds
Water move	No necessary move
Temperature compensation	Via CTN
Stocking temperature	- 10 °C to + 60 °C
Signal interface	Modbus RS-485 (standard) and SDI-12 (option)
Maximum refreshing time	< 1 second
Sensor power-supply	5 to 12 volts
Power Consumption	Standby 25 µA Average RS485 (1 measure/ seconde) : 4,4 mA Current pulse : 100 mA
Sensor	
Dimensions	Diameter : 25 mm ; length : 146 mm
Weight	450g (sensor + cable 3 meters)
Material	Stainless steel 316L
Maximum pressure	5 bars
Connection	9 armoured connectors, polyurethane jacket, bare-wires or waterproof Fisher connector
Protection	IP68

Dimensions	Wiring diagram																												
	<p>Cable length 15 to 100 meters</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>Cable length up to 15m</p> <table border="1"> <tr> <td>1</td> <td>Power supply V+</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>	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	Power supply V+	2	SDI-12	3	Power supply V-	4	B " RS-485 "	5	A " RS-485 "	6	Cable shield
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