

DATASHEET

DIGISENS RANGE

OPTOD: OPTICAL DISSOLVED OXYGEN

Digital technology for optimized measures

- Optical Technology without calibration
- Digital Technology (Modbus RS-485)
- No drift, Reduced maintenance
- Body in Stainless steel (316 L) or **Titanium**

Applications:

- Urban wastewater treatment
- Industrial effluent treatment
- Surface water monitoring,
- Sea water monitoring, fish farming, aquarium
- 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

Digital Technology:

The "smart" OPTOD 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 OPTOD can be connected to all devices commonly used (Datalogger, Controller, Automat, Remote System...).

Mécanique :

Compact, strong and **light,** the sensor allows a portable or in fixed/permanent use.

Body in **Stainless steel 316 L** (passivation treatment) or in **Titanium** for applications in corrosive environment.

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Ponsel OPTOD specifications:

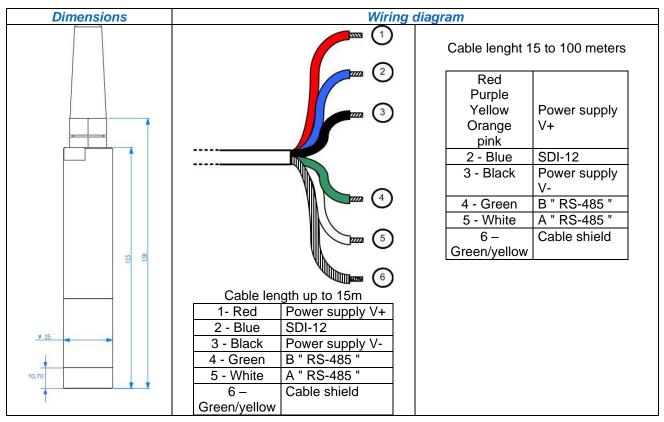
Polisei OPTOD specifications.	
Measures	
Measure principle	Optical measure by luminescence
Measure ranges	0,00 to 20,00 mg/L
	0,00 to 20,00 ppm
	0-200%
Resolution	0,01
Accuracy	+/- 0,1mg/L
	+/- 0,1 ppm
	+/- 1 %
Response time	90% of the value in less than 60 seconds
Frequency of recommended measure	>5 s
Water move	No necessary move
Temperature compensation	Via NTC
Stocking temperature	- 10°C to + 60°C
Signal interface	Modbus RS-485 (standard) and SDI-12 (option)
Sensor power-supply	5 to 12 volts
Consumption	Standby 25 µA
	Average RS485 (1 measure/ seconde): 4,4 mA
	Average SDI12 (1 measure/ seconde) : 7,3 mA
	Current pulse : 100 mA
Sensor	
Dimensions	Diameter: 25 mm; length: 146 mm
Weight	Stainless steel version 450g (sensor + cable 3 m)
	Titanium version 300 g (sensor + cable 3 m)
Material	Stainless steel 316L, New: body in Titanium
Maximum pressure	5 bars
Connection	9 armoured connectors, polyurethane jacket, bare-
	wires or waterproof Fisher connector
Protection	IP68

New: Protection strainer



The protective nylon strainer is positioned on the sensor head to protect the active membrane (DOdisk) of the OPTOD sensor.





Note:

Never exceed a voltage of 10VDC (absolute maximum rating) on communication lines RS485, A or B, under penalty of irreversible destruction of the transceiver component RS 485.

SDI-12: respect the voltage value described in the associated standard (nominal: 5 VDC) Always connect ground + shield first.