Optical oxygen sensor | internal

max. depth 2,000 m.

Sea & Sun Technology

The optical DO Sensor from Sea Sun Technology (SST) is an oxygen meter for the underwater operation down to 2,000 meters.

The optical DO Sensor measures the partial pressure of the dissolved oxygen in liquids and gases. It utilizes a measuring principle based on red light excitation and lifetime detection in the near infrared using luminescent oxygen indicator.

The oxygen measurement is temperature dependent. Therefore, the optical DO Sensor is equipped with a temperature sensor for the measured medium and a built-in temperature compensation.

ADVANTAGES

+ max. depth 2,000 m
+ long lifetime
+ integrable into all probes

Optical oxygen sensor / SST-DO internal	
Pressure resistance	2,000 dbar
Measuring range	0-250% saturation / 0...500 mbar
Accuracy	± 2%
Response time	< 2 s
Sample rate	max. 4 / s
Temperature range	-5°C...60°C
Temperature response time	< 6 s
Principle	Optical, indicator luminescence
Wavelength	excitation: 620 nm / detection 760 nm
Material	Titanium
Dimensions	110 mm long (outside probe), 140 mm overall
Used for	CTD48M, CTD48Mc, CTD75M, CTD90, CTD90M, CTD115M

Sea & Sun Technology GmbH
Arndtstrasse 9-13
24610 Trappenkamp Germany
+49 4323 91 09 13
+49 4323 91 09 15
sales@sea-sun-tech.com
www.sea-sun-tech.com