

# Device Specifications

## OEM UNDERWATER OXYGEN METER FSO2-SUBPORT

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For sensor specifications and response times, please refer to the webpages of the different sensor types.

Specifications	
<b>Max. hydrostatic pressure</b>	400 bar
<b>Material of fiber-optic feed-through</b>	Titanium (3.7035)
<b>Weight</b>	115 g
<b>Dimensions (WxDxH)</b>	67 x 25 x 25 mm
<b>Sensor Connector</b>	Proprietary PyroScience underwater connector for 1 fiber-optic oxygen sensor
<b>Compatible optical oxygen sensors</b>	O2 sensors from PyroScience with SUB-connector
<b>Temperature port</b>	1 for Pt100 temperature sensor (solder points)
<b>Measuring principle</b>	Lifetime detection of REDFLASH luminescence via fiber-optics
<b>Excitation wavelength</b>	620 nm (orange-red)
<b>Emission wavelength</b>	760 nm (NIR)
<b>Max. sampling rate</b>	4 / 20 samples per seconds (with / without temperature compensation)
<b>System requirements</b>	USB, Windows 7 / 8 / 10
<b>Power supply</b>	Max. 50mA at 3.5 - 5.0 VDC
<b>Extension Port</b>	Serial interface (UART), ASCII communication protocol
<b>Analog Output</b>	4 independent analog outputs, 0-2.5VDC, 14 bit resolution
<b>Operating / storage temperature</b>	0-50°C / -10-60°C
<b>Max rel. humidity</b>	Non-condensing conditions

<b>Temperature sensing principle</b>	4-wire Pt100
<b>Pt100 temperature sensor*</b> range resolution accuracy	-30°C- 50°C 0.02°C ±0.5°C
<b>Pressure sensor</b> range resolution accuracy	300-1100mbar 0.06mbar typ. ±3mbar
<b>Humidity sensor</b> range resolution accuracy	0-100%RH 0.04% RH typ. ±0.2%RH
<b>Optical oxygen sensor</b>	Refer to the separately available specifications for the connected optical oxygen sensor

\*Please note, that the optical oxygen sensors have a different temperature range

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