

Device Specifications

OEM UNDERWATER OXYGEN METER FSO2-SUBPORT

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

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

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| Temperature sensing principle | 4-wire Pt100 |
| Pt100 temperature sensor* range resolution accuracy | -30°C- 50°C 0.02°C ±0.5°C |
| Pressure sensor range resolution accuracy | 300-1100mbar 0.06mbar typ. ±3mbar |
| Humidity sensor range resolution accuracy | 0-100%RH 0.04% RH typ. ±0.2%RH |
| Optical oxygen sensor | 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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