

Device Specifications

OEM UNDERWATER OXYGEN METER PICO-O2-SUB

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

Specifications	
Max. hydrostatic pressure	400 bar
Material of fiber-optic feed-through	Titanium (3.7035)
Weight PICO-O2	20 g
Dimensions (WxDxH)	Ø 17 mm, 59 mm in length
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	20 samples per seconds
Logging software (optional)	Pyro Workbench or Pyro Developer Tool with USB adapter cable
System requirements	USB, Windows 7 / 8 / 10
Power supply	Min. 3.3 V DC, max. 5.0 V DC
Power consumption	
- in operation	typ. 10 mA
- in deep sleep	<100 µA (<10 µA on request)

Connector plug	Phoenix Contact PTSM0,5/4-P-2,5
Digital interface	UART (3.0V levels, 5V tolerant), 19200 baud, 8 data bit, 1 stop bit, no parity, no handshake
Operating / storage temperature	0-50°C / -20-70°C
Max rel. humidity	Non-condensing conditions
Temperature sensing principle	2-wire or 4-wire Pt100 via 24 bit ADC, must be soldered on
Pt100 temperature sensor*	
range	-30°C- 50°C
resolution	0.02°C
accuracy	±0.5°C
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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