

1 Device Specifications PICO₂-SUBPORT

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

Max. hydrostatic pressure	400 bar
Material of fiber-optic feed-through	Titanium (3.7035)
Weight PICO₂	20g
Dimensions PICO₂ (WxDxH)	Ø 17 mm, 59 mm in length
Oxygen sensor connector	Proprietary PyroScience underwater connector for 1 fiber-optic oxygen sensor
Optical sensor port	1 for optical oxygen sensors/fibers with PICO ₂ -connector
Compatible optical oxygen sensor	O ₂ sensors with underwater connector (-SUB) from PyroScience
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)
Logging Software (optional)	Oxygen Logger via USB adapter cable
System requirements	USB, Windows 7 / 8 / 10
Power supply	Min. 3.3 V DC, max. 5.0 V DC (typ. 10 mA)
Digital Interface	Serial interface (UART), ASCII communication protocol
Operating / storage temperature	0-50°C / -10-60°C
Max rel. humidity	Non-condensing conditions
Temperature sensing principle	4-wire Pt100
Pt100 temperature sensor* range resolution accuracy	-30°C-150°C 0.02°C ±0.5°C

V1.01

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

