

### 1 Device Specifications PICO<sub>2</sub>-SUBPORT

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

<b>Max. hydrostatic pressure</b>	400 bar
<b>Material of fiber-optic feed-through</b>	Titanium (3.7035)
<b>Weight PICO<sub>2</sub></b>	20g
<b>Dimensions PICO<sub>2</sub> (WxDxH)</b>	Ø 17 mm, 59 mm in length
<b>Oxygen sensor connector</b>	Proprietary PyroScience underwater connector for 1 fiber-optic oxygen sensor
<b>Optical sensor port</b>	1 for optical oxygen sensors/fibers with PICO <sub>2</sub> -connector
<b>Compatible optical oxygen sensor</b>	O <sub>2</sub> sensors with underwater connector (-SUB) from PyroScience
<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>Logging Software (optional)</b>	Oxygen Logger via USB adapter cable
<b>System requirements</b>	USB, Windows 7 / 8 / 10
<b>Power supply</b>	Min. 3.3 V DC, max. 5.0 V DC (typ. 3-5mA)
<b>Digital Interface</b>	Serial interface (UART), ASCII communication protocol
<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* range resolution accuracy</b>	-30°C-150°C 0.02°C ±0.5°C

V1.00

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

