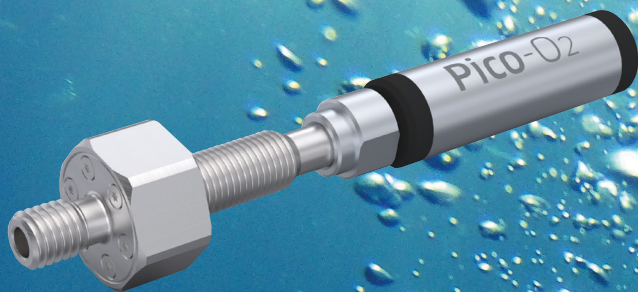


Underwater O₂ sensor solution (OEM)

PICO-O₂-SUB



O₂

Features

- OEM device for optical O₂ sensors
- Deep sea fiber-optic feed-through
- Compact dimensions
- Very low power consumption
- Precision temperature compensation
- UART interface

Potential Applications

- For custom integration in underwater equipment (e.g. in the lid of pressure cylinders)
- For underwater applications down to 4000 m (after custom pressure tests)
- Various O₂ sensor formats available for different applications

Specifications Device

Max. hydrostatic pressure	400 bar
Material of fiber-optic feed-through	Titanium
Mounting Thread	7/16 x 20 UNF
Dimensions PICO-O ₂ (WxDxH)	Ø17 mm, 59 mm in length
Oxygen Sensor Connector	Proprietary PyroScience underwater connector
Compatible Oxygen Sensors	O ₂ Sensors with underwater connector (-SUB) (PyroScience)
Power Supply	Min. 3.3 V DC, max. 5.0 V DC (typ. 3-5mA)
Digital Interface	Serial interface (UART), ASCII communication protocol
Operating / Storage Temperature	0 to 50°C / -10 to 60°C
Max rel. Humidity	Non-condensing conditions

Variety of Underwater Oxygen Sensors



Microsensors (ca. 50-70 µm tip)
retractable & fixed needle
type sensors



Minisensors (430 µm tip)
retractable & fixed needle
type sensors



Robust Probes
with different tip & cable
lengths or as screw cap
probe with exchangeable sensor caps

Ultra-High
Speed and Trace
O₂ Sensors
available



Sensor Spots
with contactless read-out
through a transparent window
(e.g. in incubation chambers)



Oxygen Sensor Cap
fast oxygen sensor screw cap,
Ø13mm, length 38.5mm