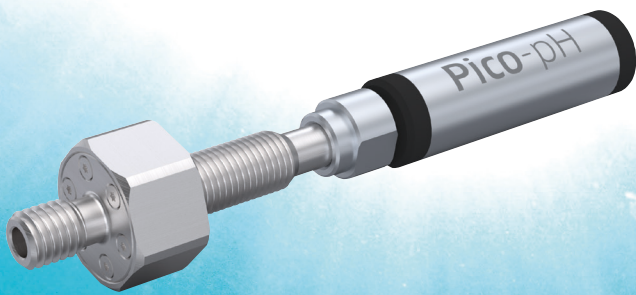


Underwater pH sensor solution (OEM)

PICO-pH-SUB



pH

Features

- OEM device for optical pH sensors
- Deep sea fiber-optic feed-through
- Compact dimensions
- Very low power consumption
- UART interface
- pH sensors optimized for seawater

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 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-pH (WxDxH)	Ø17 mm, 59 mm in length
pH Sensor Connector	Proprietary PyroScience underwater connector
Compatible pH Sensors	pH 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	0-50°C / -10-60°C
Max rel. Humidity	Non-condensing conditions

Variety of Underwater pH Sensors



pH Sensor Cap
with integrated optical
pH sensor, Ø13mm, length
38.5mm



pH Robust Screw Cap Probe
screw cap probe with
exchangeable sensor caps,
cap adapter fiber with
stainless steel tip



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

**Sensors for
pH total scale
available**

Specifications pH Sensors

Specifications	PK7 Version	PK8(T) Version
Measuring Range	6.0 - 8.0	7.0 - 9.0
Precision	0.02	0.02
Resolution	0.003 at pH 7.0	0.003 at pH 8.0
Drift	<0.005/day at pH 7.0	<0.005/day at pH 8.0

for a 2-point calibrated sensor at 25°C