

Device Specifications

OEM OXYGEN METER PICO-02

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

Specifications	
Weight	20 g
Dimensions (WxDxH)	Ø 17 mm, 59 mm in length
Sensor Connector	Screw clamp for fibers with 3mm outer diameter
Optical sensor port	1 for optical fibers with PICO-connector for read out of optical oxygen spots
Compatible optical oxygen sensors	Contactless oxygen sensors with optical fiber with PICO-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	10 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)
Digital interface	UART (3.0V levels, max. 3.3 V), 19200 baud, 8 data bit, 1 stop bit, no parity, no handshake
Connector plug	Phoenix Contact PTSM0,5/4-P-2,5
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 resolution accuracy	-30°C- 50°C 0.02°C ±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

Contact

PyroScience GmbH
Kackertstraße 11
52072 Aachen
Deutschland

Tel.: +49 (0)241 5183 2210
Fax: +49 (0)241 5183 2299
info@pyroscience.com
www.pyroscience.com