

1 Device Specifications FSO₂-Mini

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

Weight	70 g
Dimensions (WxDxH)	67 x 25 x 25 mm
Optical oxygen sensor port	1 for fiber-optic oxygen sensors/fibers with ST-connector
Compatible optical sensor	Portfolio of O ₂ sensors/fibers with ST-connector 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	Max. 50mA at 3.5 - 5.0 V DC
Extension Port	Serial interface (UART), ASCII communication protocol
Analog Output	4 independent analog outputs, 0-2.5VDC, 14 bit resolution
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
Pressure sensor range resolution accuracy	300-1100mbar 0.06mbar typ. ±3mbar
Humidity sensor range resolution accuracy	0-100%RH 0.04% RH typ. ±0.2%RH

V1.01

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