

1 Device Specifications FSO₂

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

Weight	350 g
Dimensions (WxDxH)	68 x 120 x 30 mm
Optical sensor port	1, 2, or 4 for fiber-optic oxygen or temperature sensors/fibers with ST-connector; each port freely configurable for O ₂ or T
Compatible optical sensors	Portfolio of optical O ₂ and temperature sensors with ST-connector from PyroScience
Temperature port	1 for Pt100 (external) temperature sensor with LEMO-connector
Integrated sensors	Ambient pressure, relative humidity
Measuring principle	REDFLASH technology from PyroScience
Max. sampling rate	4 / 20 samples per seconds (with / without temperature compensation)
Logging Software	Oxygen Logger (free download)
System requirements	USB, Windows 7 / 8 / 10, min. 700 MB disk space
Power supply	Max. 70mA at 5VDC from USB (typ. 50mA)
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
Pt100 temperature sensor*	
range	-30°C-150°C
resolution	0.02°C
accuracy	±0.5°C
Pressure sensor	
range	300-1100mbar
resolution	0.06mbar
accuracy	typ. ±3mbar
Humidity sensor	
range	0-100%RH
resolution	0.04% RH
accuracy	typ. ±0.2%RH

V1.01

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