Device Specifications

OPTICAL OXYGEN METER FIRESTING-O$_2$

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

Specifications	
Weight	Ca. 290 g
Dimensions (WxDxH)	78 x 120 x 24 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	10-20 samples per seconds
Logging software	Pyro Workbench (free download)
System requirements	USB 2.0, Windows 7/8/10, min 700 MB disk space 1GB RAM, min. 1360x768 screen resolution
Power supply	Typ. 20mA at 5VDC from USB
Extension port	Serial interface (UART), ASCII communication protocol
Analog output	4 independent analog outputs, 0-2.5VDC, 14 bit resolution
Operating / storage temperature	0-50ºC / -10-60ºC
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

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

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