

# Device Specifications

## OPTICAL OXYGEN METER

### FIRESTING-O<sub>2</sub>

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

Specifications	
<b>Weight</b>	Ca. 290 g
<b>Dimensions (WxDxH)</b>	78 x 120 x 24 mm
<b>Optical sensor port</b>	1, 2, or 4 for fiber-optic oxygen or temperature sensors/fibers with ST-connector; each port freely configurable for O <sub>2</sub> or T
<b>Compatible optical sensors</b>	Portfolio of optical O <sub>2</sub> and temperature sensors with ST connector from PyroScience
<b>Temperature port</b>	1 for Pt100 (external) temperature sensor with LEMO-connector
<b>Integrated sensors</b>	Ambient pressure, relative humidity
<b>Measuring principle</b>	REDFLASH technology from PyroScience
<b>Max. sampling rate</b>	10-20 samples per seconds
<b>Logging software</b>	Pyro Workbench (free download)
<b>System requirements</b>	USB 2.0, Windows 7/8/10, min 700 MB disk space 1GB RAM, min. 1360x768 screen resolution
<b>Power supply</b>	Typ. 20mA at 5VDC from USB
<b>Extension port</b>	Serial interface (UART), ASCII communication protocol
<b>Analog output</b>	4 independent analog outputs, 0-2.5VDC, 14 bit resolution
<b>Operating / storage temperature</b>	0-50°C / -10-60°C
<b>Max rel. humidity</b>	Non-condensing conditions
<b>Pt100 temperature sensor* range</b>	-30°C- 150°C

<b>resolution</b> <b>accuracy</b>	0.02°C ±0.5°C
<b>Pressure sensor</b> <b>range</b> <b>resolution</b> <b>accuracy</b>	300-1100mbar 0.06mbar typ. ±3mbar
<b>Humidity sensor</b> <b>range</b> <b>resolution</b> <b>accuracy</b>	0-100%RH 0.04% RH typ. ±0.2%RH

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

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