

## 1 Device Specifications FSGO<sub>2</sub>

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

<b>Weight</b>	150 g
<b>Dimensions (WxDxH)</b>	52 x 97 x 20 mm
<b>Optical oxygen sensor port</b>	1 for fiber-optic oxygen sensors/fibers with ST-connector
<b>Compatible optical sensor</b>	Portfolio of O <sub>2</sub> sensors/fibers with ST-connector from PyroScience
<b>Temperature port</b>	1 for Pt100 temperature sensor with LEMO-connector
<b>Integrated sensors</b>	Ambient pressure, relative humidity
<b>Measuring principle</b>	Lifetime detection of REDFLASH luminescence via fiber-optics
<b>Excitation wavelength</b>	620 nm (orange-red)
<b>Emission wavelength</b>	760 nm (NIR)
<b>Max. sampling rate</b>	1 sample per seconds
<b>Typ. data file size</b>	ca. 100 bytes per data point
<b>Typ. stand-alone logging time</b>	ca. 1 week for 1 s logging interval ca. 2 months for 10 s logging interval ca. 6 months for 1 min logging interval ca. 1-2 years for >10 min logging interval
<b>Data management software</b>	FireStingGO <sub>2</sub> Manager (free download)
<b>System requirements</b>	USB, Windows 7/8/10, min. 700 MB disk space
<b>Integrated battery</b>	Rechargeable lithium ion polymer battery
<b>Battery charging</b>	Via micro-USB, fully charged after ca. 2 hours
<b>Internal memory</b>	Industrial grade 4GB, ca. 40 million data points
<b>Operating temperature</b>	0°C - 50°C
<b>Max rel. humidity</b>	Non-condensing conditions
<b>Pt100 temperature sensor* (range / resolution / accuracy)</b>	-30°C-150°C / 0.02°C / ±0.5°C
<b>Pressure sensor (range / resolution / accuracy)</b>	300-1100mbar / 0.06mbar / typ. ±3mbar
<b>Humidity sensor (range / resolution / accuracy)</b>	0-100%RH / 0.04% RH / typ. ±0.2%RH

V1.01

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