

FireStingGO2

Pocket Oxygen Meter
with long-term logging



Simplify & boost your
field and lab research

One Device –
Many Applications

- for long-term logging (up to >1 year)
- smart LCD user interface
- rechargeable battery
- REDFLASH technology
- 1 oxygen & 1 temperature channel
- broad oxygen sensor portfolio
- operation modes: stand-alone, Windows PC

pyroscience 
sensor technology

www.pyroscience.com

Pocket Oxygen Meter with long-term logging

Hand-held oxygen meter FireStingGO2

The FireStingGO2 is a fiber-optic oxygen meter based on the established FireSting technology featuring:

- broad oxygen sensor portfolio
- sensors for the full and the trace oxygen range
- automatic temperature and pressure compensation
- proven REDFLASH technology



New Features:

- integrated high contrast LCD display
- integrated rechargeable battery
- extremely low power consumption for long-term logging (up to >1 year)

Operation Modes:

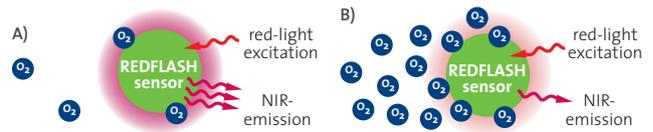
- stand-alone via intuitive LCD user interface
- with Windows PC via USB

Innovative REDFLASH technology



The proven REDFLASH technology is based on the bright REDFLASH oxygen sensors and impresses by

- (ultra-)fast response times
- low power consumption
- high precision
- high reliability
- low cross-sensitivity and
- reduced interferences



Principle: red light excited REDFLASH indicators show luminescence in the near infrared (NIR), which decreases with increasing oxygen (quenching effect).
A) high NIR emission at low oxygen and **B)** low NIR at high oxygen

Specifications

Weight	150 g
Dimensions (w x l x h)	52 x 97 x 20 mm
Interface	LCD, USB
Operation Modes	<ul style="list-style-type: none"> • stand-alone • Windows PC
Memory	4 GB
Battery	rechargeable Li-Ion battery max. 2 h charging via micro-USB
PC Software	Windows XP, Vista, 7, 8, 10
Operating Conditions (instrument)	<ul style="list-style-type: none"> • 0-50°C • non-condensing conditions
Oxygen Sensors (1 channel)	microsensors, minisensors, robust probes, sensor spots, respiration vials, flow-through cells
Temperature Sensors (1 channel)	PT100 temperature sensors
Measuring Range (optimum)	<ul style="list-style-type: none"> • 0-50% O₂ (full range sensor) • 0-10% O₂ (trace range sensor) • 0-50°C
Detection Limit	<ul style="list-style-type: none"> • 0.02% O₂ (full range sensor) • 0.005% O₂ (trace range sensor)
Accuracy (2-point calibrated)	<ul style="list-style-type: none"> • 0.2% (at 20% O₂) • 0.02% (at 1% O₂)

The New All-rounder

Pocket Oxygen Meter with

- unbeatable size & performance
- large application spectrum
- broad sensor portfolio
- long-term logging (up to ca. 1-2 years)

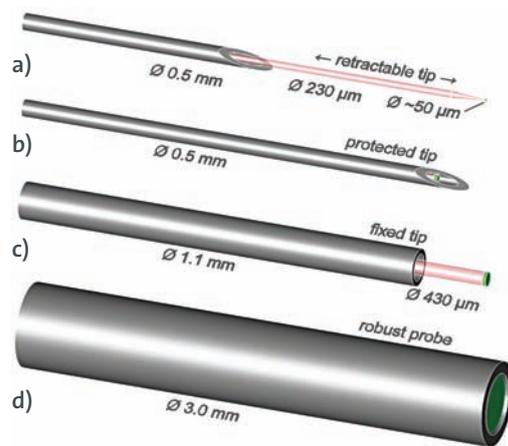
Simplify & Boost your Field and Lab Research!



One Device – Many Applications with various fiber-optic oxygen sensors

Needle-type Oxygen Sensors and Robust Probes

- **Tip Diameters:** from 50 μm to 3 mm (microsensors, minisensors, robust probes).
- **Concentration Range:** full range 0-100% O_2 (0-40 mg/L dissolved oxygen), trace range 0-21% O_2 (0-8 mg/L dissolved oxygen)
- **Options:** protected tip, optical isolation, fast response time
- **Calibration:** 1-point or 2-point calibration
- **Measurement:** with oxygen-sensitive REDFLASH indicators at the sensor tip



Examples of available tips: a) retractable needle-type microsensors, b) needle-type minisensor with protected tip or c) fixed sensor tip and d) robust probe

Oxygen Sensor Spots

- **Standard Spot Diameter:** 5 mm on PET foil
- **Concentration Range:** full range 0-100% O_2 (0-40 mg/L dissolved oxygen), trace range 0-21% O_2 (0-8 mg/L dissolved oxygen)
- **Placement of spots:** on transparent inner container wall enclosing a liquid or gas
- **Measurement:** with spot fiber connected to a spot adapter fixed at the outer container wall
- **Options:** custom spot material/ dimensions



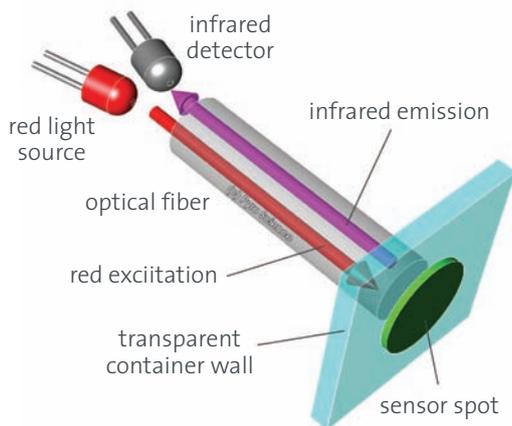
Respiration Vials

Ready assembled respiration vials of different volume with integrated oxygen sensor as plug & play solution.



Flow-through Cells

Small and large version available with luer-lock adapters for easy integration into experimental setups (aqueous and gas samples).



Contact and Service

Please contact us for more information concerning the

- different fiber-optic oxygen meters
- broad range of available sensors and probes
- set-ups for automatized micro-profiling and
- OEM solutions available from PyroScience GmbH

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