

FireSting-O₂ Fiber-Optic Oxygen Meter

O₂

T



ONE DEVICE - MANY APPLICATIONS

- Compact USB-powered fiber-optic oxygen meter
- 1, 2 or 4 optical sensor channels, 1 temperature port
- Broad range of different oxygen sensors
- For gases and liquids
- Advanced temperature & ambient pressure compensation
- Analog outputs and broadcast mode
- New Workbench software with Data Inspector tool

**O₂ Measurements with
diverse Sensor Formats**

OXYGEN SENSING WITH CUTTING-EDGE TECHNOLOGY

The all-rounder FireSting-O2

The compact FireSting-O2 is a PC-controlled (USB) fiber-optic oxygen meter available with 1, 2 or 4 channels for different optical oxygen and temperature sensor types from PyroScience.

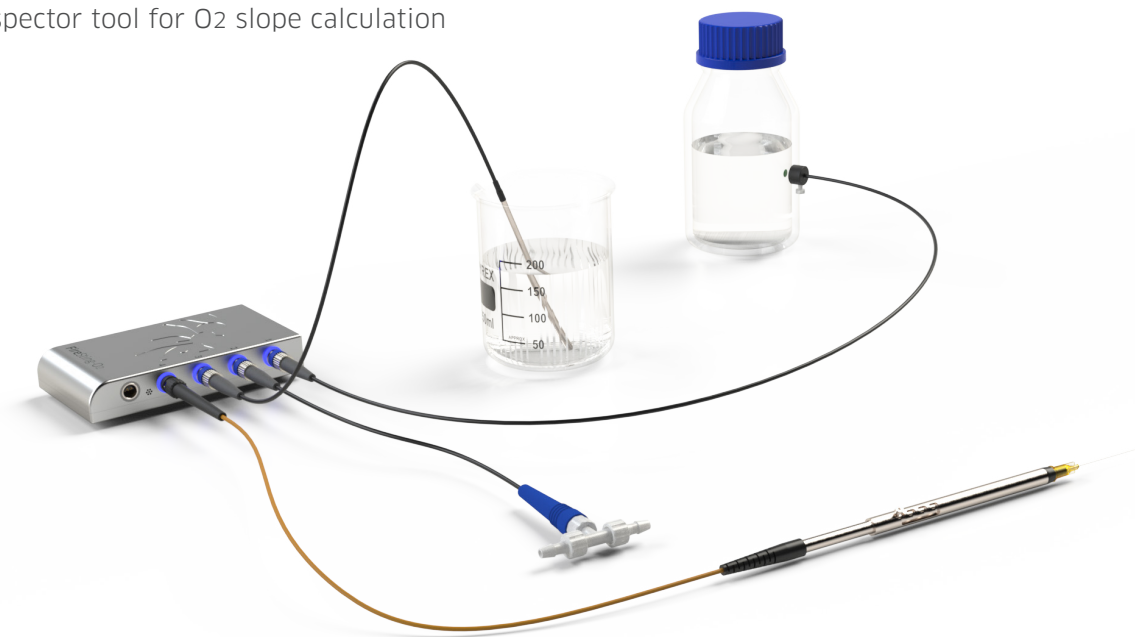
For Advanced Measurements with

- freely configurable channels for O2 & T
- various sensor formats (fiber-optic & contactless) & ranges (full & trace)
- high speed sampling & spatial resolution
- advanced temperature & ambient pressure compensation
- smart measurement modes
- new Workbench software with Data Inspector tool for O2 slope calculation

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
- low cross-sensitivity and
- reduced interferences



Specifications FireSting-O2

Weight	ca. 290 g
Dimensions	78 x 120 x 24 mm
Interface	USB 2.0
Optical Sensor Port	1, 2 or 4 optical O2 & T sensors
Temperature Port	Pt100 probes
Integrated Sensors	<ul style="list-style-type: none"> • relative humidity • atmospheric pressure
Operating conditions	<ul style="list-style-type: none"> • 0-50°C • non-condensing
Software	customer-friendly Pyro Workbench (Windows)

Sensor Specifications*

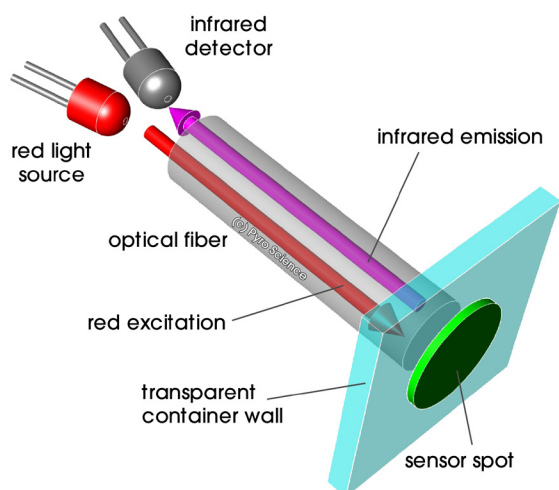
Measuring Range (optimum)	0-50% O2 (gas) 0-22 mg/L (DO)
Measuring Range (maximum)	0-100% O2 (gas) 0-44 mg/L (DO)
Detection Limit	0.02% O2 (gas) 0.01 mg/L (DO)
Response Time (t90)	down to 0.3 s (gas/water)
Salinity Range	0-50 psu
Temperature Range	0-50°C

* except OXSOLV, OXNANO and TRACE sensors

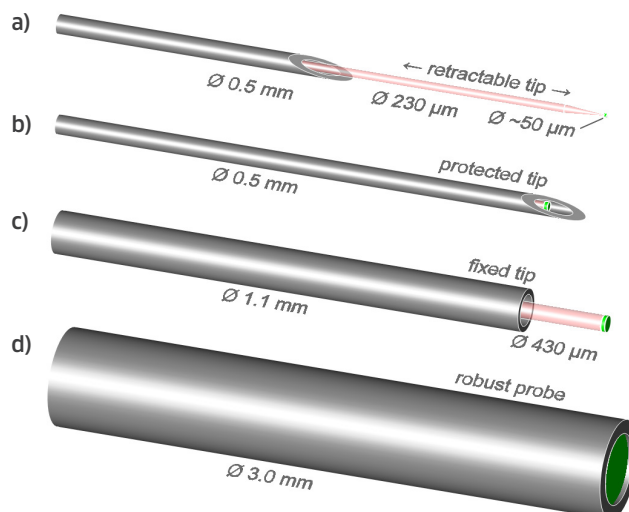
One Device – Multiple Sensors for Applications in Gas and Water

Sensor	Item	Analyte	Application
Robust Probes	OXROB...	O ₂	stirred water & gas
Retractable Tip Minisensors	*OXR...	O ₂	water, gas & semi-solid samples
	TPR...	Temp.	
Fixed Tip Minisensors	*OXF...	O ₂	water, gas & semi-solid samples (esp. seawater)
	TPF...	Temp.	
	OXF...-PT	O ₂	gas (puncturing septa/packaging)
Bare Fiber Minisensors	*OXB...	O ₂	water, gas & custom
	TPB...	Temp.	
Solvent-Resistant Probes	OXSOLV	O ₂	approved polar & nonpolar solvents
	OXSOLV-PTS	O ₂	approved solvent vapours
Nanoprobes	OXNANO	O ₂	aqueous solutions & microfluidics
Sensor Spots	OXSP5	O ₂	water & gas
	TPSP5	Temp.	
Sensor Vials	OXVIAL...	O ₂	water & gas
	TOVIAL...	Temp. & O ₂	
Flow-Through Cells	OXFTC...	O ₂	water & gas
	OXFTCR		
	TPFTC2	Temp.	
	TOFTC2	Temp. & O ₂	

* also as Microsensor; water = water, seawater, aqueous solutions



Principle of contactless read-out of sensor spots and sensor vials.



Examples of available tips: a) retractable microsensor b) fixed minisensor with protected tip and with c) protruding sensor tip, d) robust probe

CONTACT AND SERVICE

Please contact us for more information
concerning our

- Lab & portable sensor systems
- Optical pH, O₂ & T sensors
- Sensor formats and ranges
- Underwater sensor systems
- OEM solutions