

# Solvent-Resistant Oxygen Probe

For application in approved solvents with FireSting Meters



- Fiber-optic sensor for measurement of oxygen partial pressure in specific approved polar & nonpolar solvents (except fluorinated and some chlorinated hydrocarbons)
- Stainless steel housing with needle (ø 1.5 mm, 150 mm length) for stable mounting in experimental setup (optional with protected tip, ø 1.5 mm, 40 mm length)
- Typical application time in specific solvent in the range of minutes to 1 hour
- Repeated short-term application in approved solvent possible after re-calibration
- Tested solvents include pure solvents and complex solvent mixtures
- Application temperature in the range of 5 to 45 °C
- Compatible with optical oxygen meters **FireStingO<sub>2</sub>** and **FireStingGO<sub>2</sub>**
- Based on proven REDFLASH technology

# Solvent-Resistant Oxygen Probe

For application in approved solvents with FireSting Meters

Tested Solvents (1 hour exposure)

Solvent	Applicability
acetone	✓
acetonitrile	✓
acrylic acid	✓
acrylonitrile	✓
anisol	✓
biodiesel	✓
butyl acrylate	✓
chloroform	no
cyclohexane	✓
dichloromethane	✓
diesel	✓
diethyl ether	no
dimethylformamide	✓
dimethyl sulfoxid	✓
dioxane	✓
ethyl acetate	✓
ethyl acrylate	no
freon	no
gasoline	no

Solvent	Applicability
<i>n</i> -heptane	✓
hexane	✓
2-hydroxy ethyl methacrylate	✓
isooctane	✓
methyl acrylate	no
methyl methacrylate	no
methyl <i>tert</i> -butyl ether	✓
mineral oil	✓
nitromethane	no
paraffin oil	✓
olive oil	✓
1-propanol	✓
sesame oil	✓
silicone oil	✓
styrene	no
tetrahydrofuran	✓
toluene	no
triethylamin	✓

✓: Accuracy  $\pm$  5% of sensor reading

## PyroScience GmbH

Hubertusstr. 35  
52064 Aachen · Germany

phone: +49 (0)241 5183 2210

fax: +49 (0)241 5183 2299

info@pyroscience.com

www.pyroscience.com

**pyroscience**   
sensor technology

www.pyroscience.com