NeoFox

The optical oxygen sensor

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The NeoFox phase measurement system is a fluorescence-based optical sensor system that helps you reduce costs, improve stability and make calibration easier for a wide variety of oxygen sensing setups. NeoFox is the benchtop device for measurement of fluorescence lifetime, phase and intensity and is particularly suited for applications where sensitivity to drift and system stability are critical.

Applications

- Bioprocess monitoring
- Cosmetical analysis
- Medical analysis
- Chemical measurements
- Food analysis (inside packaging)

Features

- Usable for both dissolved and gaseous oxygen measurements
- Field and bench top models available
- Fibre optic based probe
- Analog output
- Software control
- Various probes available
- Various O_2 calibration ranges available

Advantages

- Fast response times
- No need for frequent calibration
- Does not consume oxygen
- Portable design
- High sensitivity
- Good stability
- Immune to change in pH level or ionic strength, salinity and biofouling
- Low power consumption

Specifications

Probe Specifications*

	FOXY Formulation (general-purpose coating)	FOSPOR Formulation (high-sensitivity for low level O2)	HIOXY Formulation (hydrocarbon environments)
O2% range:	0 - 100%	0-20.9%	0-100% at 1 ATM
DO range (ppm):	0 - 40 ppm	0-8 ppm	0-40 ppm
Temperature range:	-50 - +80 ºC	-20-+80 ºC for probes 0-60 ºC for patches	0-60 ºC NA
O2 resolution:	0.01 - 0.05%	.001%	01-.05%
DO resolution:	4 - 20 ppb	0.4-2 ppb at room temp.	4-20 ppb at room temp.
02 accuracy:	5% of reading	5% of reading	5% of reading
Min. detectable level:	0.01 - 0.05%	5% of reading	5% of reading
Response time:	< 1 second in gas ~30 seconds with overcoating in gas ~ 45 seconds in pure water	< 1 second in gas ~30 seconds with overcoating in gas ~45 seconds in pure water	< 1 second in gas ~30 seconds with overcoating in gas ~45 seconds in pure water

** Our probes are available in various mechanical form factors. For more details see www.oceanoptics.eu/probes*

Patch Specifications

	FOXY Formulation (general-purpose coating)	FOSPOR Formulation (high-sensitivity for low level O2)	HIOXY Formulation (hydrocarbon environments)
O2% range:	0 - 100%	0-20.9%	0-100% at 1 ATM
DO range (ppm):	0 - 40 ppm	0-8 ppm	0-40 ppm
Temperature range:	-20 - +60 ºC	-20-+80 ºC for probes 0-60 ºC for patches	0-60 ºC NA
O2 resolution:	0.05%	.001%	01-.05%
DO resolution:	20 ppb	0.4-2 ppb at room temp.	4-20 ppb at room temp.
02 accuracy:	5% of reading	5% of reading	5% of reading
Min. detectable level:	0.1% Oxygen (40 ppb in water at room temperature	5% of reading	5% of reading
Response time:	< 1 second in gas ~30 seconds with overcoating in gas ~45 seconds in pure water	< 1 second in gas ~30 seconds with overcoating in gas ~45 seconds in pure water	< 1 second in gas ~30 seconds with overcoating in gas ~45 seconds in pure water

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