



Sensors for Real-Time Analysis

advanced sampling options and detection technology

Ocean Optics optical sensors provide a viable alternative to traditional chemical sensing devices and consist of transducer materials applied to the tips of optical fibers or to substrates such as patches or cuvettes. These indicator materials change optical properties in response to specific analytes in their immediate environment, with formulations available for a variety of oxygen and pH sensing needs.

Thanks to our developments in sensor detection technology and sampling options, you can enjoy lower system prices and greater application versatility than ever before.

NeoFox Phase Measurement System

A new option for the detection part of our fluorescence-based optical sensor systems helps reduce costs, improve system stability and make calibration easier for most oxygen sensing setups. NeoFox is a benchtop device for measurement of fluorescence lifetime, phase and intensity, and is especially useful for applications where sensitivity to drift and system stability are important. What's more, NeoFox is about half of the cost of our previous phase-measurement system, and includes a self-calibration feature for improved electronic stability.



NeoFox Interface



System Specifications

	FOXY Formulation (general-purpose coating)	FOSPOR Formulation (high-sensitivity for low levels of O ₂)	HIOXY Formulation (for hydrocarbon environments)
O ₂ range:	0-100%	0-<1%	0-20.9% at 1 ATM
DO range (ppm):	0-10 ppm	0-0.5 ppm	0-8 ppm
Temperature range:	-20+80 °C for probes 0-60 °C for patches	-20+80 °C for probes 0-60 °C for patches	0-60 °C NA
O ₂ resolution:	100-500 ppm	10 ppm	100-500 ppm
DO resolution:	4-20 ppb at room temp.	0.4-2 ppb at room temp.	4-20 ppb at room temp.
O ₂ accuracy:	5% of reading	5% of reading	5% of reading
DO accuracy:	5% of reading	5% of reading	5% of reading
Min. detectable level:	100-500 ppm	10-100 ppm	100-500 ppm
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 ~45 seconds in pure water



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