

NeoFox Phase Measurement System

Benchtop and Handheld Electronics for Your Optical O₂ Sensor



For oxygen sensing, the NeoFox[®] Phase Measurement System is our most popular fluorescence-based optical sensing system. Because of NeoFox's unique ability to improve overall system stability and make calibration easier for a wide variety of oxygen sensing setups, it is the choice for measuring fluorescence lifetime, phase and intensity. Plus, NeoFox is brilliantly suited for applications where sensitivity to drift and system stability are critical.

The NeoFox uses LED excitation and photodiode detection with filter-based wavelength selection for easy experimental setup and control. Because the unit is self-contained, it is invariant to fiber bending and stray light, and has a wide dynamic range of optical intensity as well as low optical and electronic crosstalk, and low drift and phase noise.

NeoFox is available in two popular formats: NeoFox Benchtop and NeoFox Sport for handheld measurements. NEOFOX-GT is a more robust benchtop option with RS-232 communications capability.

NeoFox Specifications		
	Benchtop Item Code: NEOFOX	Portable/Handheld Item Code: NEOFOX-SPORT
Dimensions:	107.95 mm x 63.5 mm x 38.1 mm	327.6 mm x 190.5 mm x 66.5 mm
Weight:	642 g	928 g
Principle:	Photoluminescence quenching using a ruthenium compound; sensor measures O ₂ partial pressure	Photoluminescence quenching using a ruthenium compound; sensor measures O ₂ partial pressure
Parameters measured:	Luminescence phase shift, AC luminescence intensity, temperature (via optional external thermistors) and pressure (via onboard pressure transducer)	Luminescence phase shift, AC luminescence intensity, temperature (via optional external thermistors) and pressure (via onboard pressure transducer)
Sensor coating formulations (sol gel-embedded dyes):	General purpose (FOXY), high-sensitivity (FOSPOR) and hydrocarbon-ready (HIOXY)	General purpose (FOXY), high-sensitivity (FOSPOR) and hydrocarbon-ready (HIOXY)
Media:	Gases and liquids	Gases and liquids
Computer interface:	PC	For full range of functions – PC For basic functions – operate from DPU interface of unit
Operating systems:	Windows XP (32-bit); also, Windows 7 (32-bit)	Windows XP (32-bit); also, Windows 7 (32-bit)
Power input:	5VDC, 500 mA steady state	5VDC, 500 mA steady state
Communications:	USB, analog out, RS-232	USB, analog out, RS-232



NeoFox Viewer Software

NeoFox Viewer is the Windows-based software that allows you to collect, manage and analyze data with your NeoFox or NeoFox Sport phase measurement system. This nimble software also makes it simple to configure your NeoFox and update firmware when necessary. Use NeoFox Viewer to get the most out of your NeoFox and to ensure reliability through each measurement.

You can download a free copy of NeoFox Viewer at www.oceanoptics.com.

