

# NeoFox



## Oxygen Sensing

The NeoFox is a device for measuring fluorescence lifetime, phase and intensity. It uses LED excitation and photodiode detection with filter-based wavelength selection for easy experimental set-up 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. Therefore, the NeoFox is especially useful for oxygen sensing applications where stability and sensitivity to drift is important and where sample set-ups must be left undisturbed for long periods of time.

## Electronics

- -30 – 60 °C
- 0.1 – 3.0 atm
- Autonomous On-Board Processing
- Fluorescence Lifetime Method
- USB-Windows Software
- 0-5V / 4-20mA / RS-232 Interface

## Software

- Universal Windows Installer
- 2-Point & Multi-Point Calibration Options
- Dynamic Temperature Compensation
- Customizable Data Logging & Duty Cycle
- Multi-Channel Support



**US** +1 727-733-2447

**EUROPE** +31 26-3190500

**ASIA** +86 21-6295-6600

info@oceanoptics.com • www.oceanoptics.com



**OceanOptics**



## At a Glance

**Electronics Operating Temperature:** -30 – 60 °C

**Electronics Operating Pressure:** 0.1 – 3.0 atm

**Processing:** Autonomous On-Board

**Detector:** Avalanche Photodiode (APD)

**Wavelength Range:** 200 – 1000 nm

**Decay Resolution:**  $\approx 0.5 - 1.0$  ns  
(optics dependent)

**Operating Method:** Fluorescence Lifetime

**Software:** Windows (USB)

**Industrial Outputs:** 0-5V / 4-20mA

**Communication:** USB / RS-232

**On-Board Sensors:** Pressure / Board Temperature

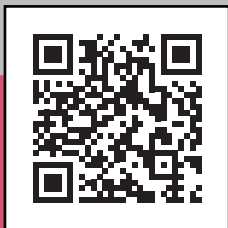
**Dimensions:** 108 mm x 64 mm x 38 mm

**Weight:** 640 g

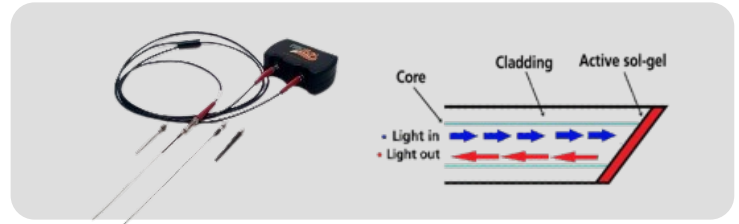
**Programmable Physical Button:** Yes

**Power Supply:** 4.5 – 5 V

**Data Logging Maximum:** 10Hz



For more information on the NeoFox, please contact an Ocean Optics Application Scientist today.



### FOSPOR Chemistry

- 0 – 5 atm pO<sub>2</sub>
- -200 – 60 °C
- 2 – 10 sec t(90)
- Aqueous / Ambient
- Cell Culture / Benchtop R&D

### HIOXY Chemistry

- 0 – 0.5 atm pO<sub>2</sub>
- -200 – 120 °C
- 0.5 – 5 sec t(90)
- Organics / Fuels / Oils
- High Temperature



### Probes & Patches

- Gas & Liquid Readings
- Partial Pressure Method

### Probes

- Standard Compression Sizes:  
1/4", 1/8", 1/16", 600 $\mu$ m, 400 $\mu$ m
- Integrated Thermistor Available
- Custom Designs Available

### Patches

- 4mm / 8mm Options
- High Performance 3M Adhesive
- Gas & Aqueous Applications