



Y S I Environmental

NEW



## Reliable Oxygen Sensor

YSI's most **Reliable** Oxygen Sensor to date: **ROX**

**UUSI OPTINEN  
HAPPIANTURI**  
päivitettävissä olevat mallit:  
**6600, 6820 ja 6920**



The ROX Reliable Oxygen Sensor

The next generation YSI ROX is a luminescent-based dissolved oxygen sensor that offers YSI customers the most powerful tool for making long-term oxygen measurements in severe fouling and low oxygen environments. Its rugged design and large measurement range make it ideal for sampling, flow cell and groundwater measurements.

- Utilizes luminescence lifetime detection of oxygen to provide the most stable measurements possible
- Microprocessor-controlled measurement system reduces drift and improves accuracy
- Easy to replace, durable membrane with a usable life of one year
- Fully compatible with all YSI 6-Series sondes equipped with optical ports—with a free and easy firmware upgrade from [ysi.com](http://ysi.com)
- Easy one or two point calibration:
  - One-point saturation
  - Two-point for a zero calibration point and saturation
- Integrated wiping system providing anti-fouling in the most hostile environments and featuring:
  - New switch controlled wiper parking system
  - Non-corroding titanium wiper shaft for long-life in hydrogen sulfide (H<sub>2</sub>S) and low oxygen environments
  - User-replaceable wiper shaft seal for longer sensor life
- Widest detection range of any optical dissolved oxygen sensor for easy correlation with YSI Rapid Pulse™ legacy data

YSI understands the challenges facing scientists and technicians in the field today. Many of our employee-owners spend time working along side our customers in the field and have experienced first hand what works well and what doesn't. The lessons we have learned have been applied to the design of the new ROX sensor.

Pure  
Data for a  
Healthy  
Planet.®

### ROX Quality Control and Quality Assurance

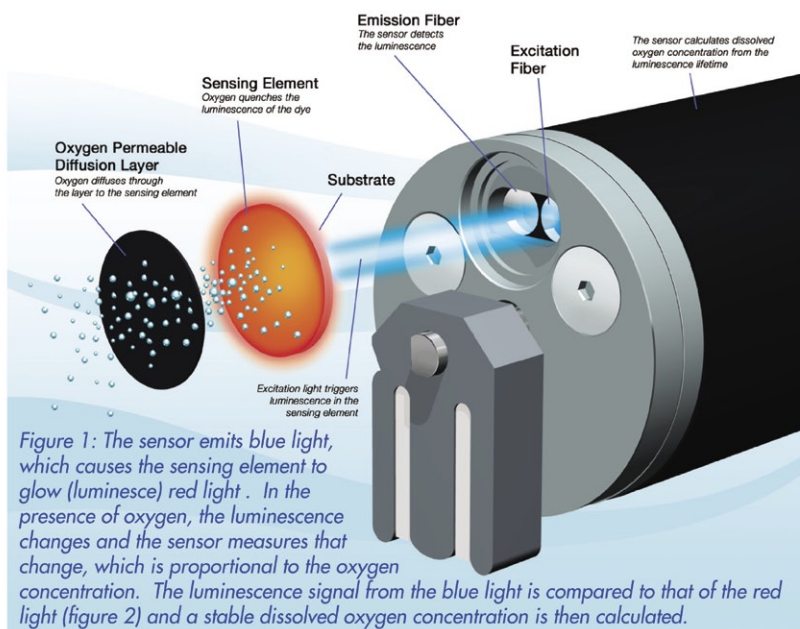
Improving on YSI's commitment to supplying our customers with relevant calibration and QA/QC data, each ROX sensor is shipped with full-range factory calibration coefficients to ensure excellent sensor accuracy.

[www.ysi.com](http://www.ysi.com)

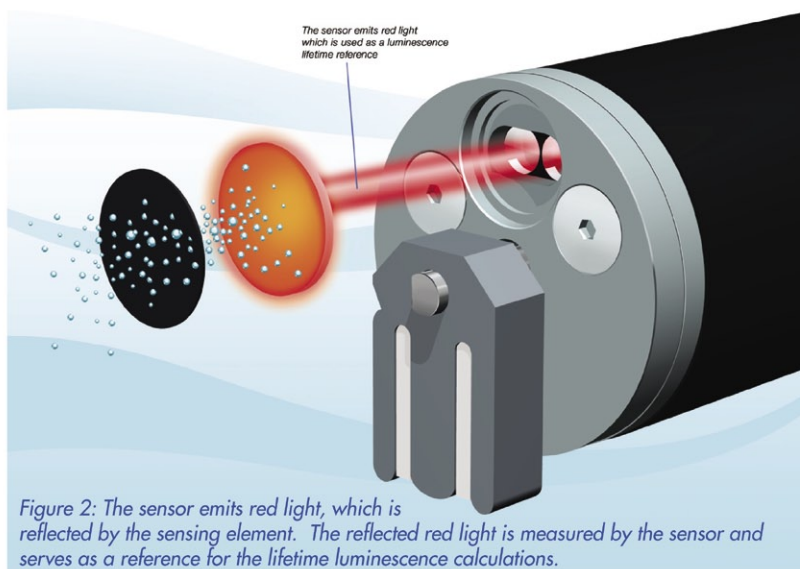


**Methodology**

The ROX sensing system is based on the luminescence lifetime method. This method was chosen because it offers the most stable, repeatable and sensitive method for oxygen detection, thus reducing sensor drift and prolonging deployment times.



The ROX membrane differs from the traditional electrochemical sensor membrane, requiring fewer steps for installation and less maintenance. ROX membranes will last for one year and are made of a durable material that is unlikely to be damaged in the field. The ROX sensor eliminates stirring dependency that was required of most traditional polarographic sensors.



**Rapid Pulse™ vs. ROX**

YSI's ROX sensor has several advantages over the Rapid Pulse DO sensor including:

- Zero flow dependence
- Maintenance-free and puncture-proof membrane
- No electrolyte
- Self-cleaning for longer deployments
- Insensitive to H<sub>2</sub>S
- Zero-cal option

To order, or for more information, contact YSI Environmental.  
800 897 4151 (US)  
+1 937 767 7241 (Globally)  
www.ysi.com

YSI Environmental  
+1 937 767 7241  
Fax +1 937 767 9353  
environmental@ysi.com

Endeco/YSI  
+1 508 748 0366  
Fax +1 508 748 2543  
environmental@ysi.com

SonTek/YSI  
+1 858 546 8327  
Fax +1 858 546 8150  
inquiry@sontek.com

YSI Environmental Gulf Coast  
+1 225 753 2650  
Fax +1 225 753 8669  
environmental@ysi.com

YSI Hydrodata (UK)  
+44 (0) 1462 673 581  
Fax +44 (0) 1462 673 582  
europe@ysi.com

YSI Middle East (Bahrain)  
+973 1759 2138  
Fax +973 1759 2538  
halsalem@ysi.com

YSI (Hong Kong) Limited  
+852 2891 8154  
Fax +852 2834 0034  
ysihk@ysi.com.hk

YSI (Qingdao) Limited  
+86 532 575 3636  
Fax +86 532 571 0101  
ysiqd@ysiqd.com.cn

YSI Nanotech (Japan)  
+81 44 222 0009  
Fax +81 44 221 1102  
nanotech@ysi.com

ISO 9001  
ISO 14001

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Printed in USA 0306 E32



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**ROX Reliable Oxygen Sensor Specifications (Item # 6150)**

	Range	Resolution	Accuracy
Optical Dissolved Oxygen* % Saturation	0 to 500%	0.1%	0 to 200%: ±1% of reading or 1% air saturation, whichever is greater; 200 to 500%: ±15% of reading
Optical Dissolved Oxygen* mg/L	0 to 50 mg/L	0.01 mg/L	0 to 20 mg/L: ± 0.1 mg/L or 1% of reading, whichever is greater; 20 to 50 mg/L: ±15% of reading

\* Maximum depth rating for all optical probes is 200 feet, 60.96 m.