



# Oxygen Detection

## OXY-IS SERIES

**AIR:** OXY-IS-D (Diffusion) and OXY-IS-DF (Flow Through)

**WATER:** OXY-IS-DSUB (Diffusion Submersible) and OXY-IS-DFW (Flow Through)

## Features

- Intrinsic Safety Approval (IS)
- MSHA L and G (USA) Classified For Use in Methane Areas
- Diffusion Style – **OXY-IS-D**
  - Wall Mount
- Flow Through Style – **OXY-IS-DF**
  - Wall or Pipe Mount or Bench Top
- Diffusion Style Submersible – **OXY-IS-DSUB**
- Flow Through Style Water – **OXY-IS-DFW**
- Uses Normal Wiring and Open Conduit
- Long-Life, Continuous Monitoring
- Optional Calibration Kit
- Natural Zero Reference
- No Pump Required – **OXY-IS-D, OXY-IS-DSUB**
- Quiet Pump 30 lpm (other flow rates available) **OXY-IS-DF**
- Easy Integration into Any Air or Water Monitoring System
- Transmission Distance up to 5 Miles Over 18 Awg Cable
- Computer Interface
- Local Digital Display
- Immune to Moisture, Non-Corroding
- Electronics Leak Proof

## Application

### Protection From Oxygen Deficiency Or Excess

- Process For Ambient **Oxygen In Air:** Diffusion (**OXY-IS-D**) or Flow Through (**OXY-IS-DF**)
- Process For Ambient **Oxygen In Water:** Diffusion (**OXY-IS-DSUB**) or Flow Through Oxygen (**OXY-IS-DFW**)
- Use in Factories, Buildings, Mines, Ships, Tanks, Labs, Tunnels, Vaults, Hospitals, NPP



## TECHNICAL ASSOCIATES OVERHOFF TECHNOLOGY

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### Specifications

Physical	Size	6.5W x 8H x 5.5D inches (165W x 203H x 140D mm).
	Sensor Weight	3.5 pounds (1.6 Kg).
	Construction	Tough, thermosetting plastic. Hinged door and secure access.
	Hardware	Stainless steel for long life.
	Circuit module	Encapsulated (water/dust proof).
Electrical	Input voltage	9.5-30 VDC (110/220VAC optional).
	Output current	4-20 ma
	Current driver	Auto-compensation, for combined load/line resistance to 500 ohms.
	Grounding	Not required.
	Fuse	Solid state, auto-reset.
Oxygen Sensor	Cell type	Galvanic fuel cell, replaceable.
	Cell construction	All plastic, with organic diffusion membrane, non-corrosive.
	Expected cell life	18 months under normal conditions
	Drift	Less than 0.5% per month when stabilized in location
Air or Gas	Access to atmosphere	Diffusion, no pump required – OXY-IS-D Flow Through –
	Air Flow Through	Quiet Green Turtle Pump – OXY-IS-DF
	Range	30 lpm (other flow rates available) 0-25%, 0-50% dual scale is standard. Others available
	Sensitivity	0.5% O <sub>2</sub> in air (by volume). Diffusion, no pump required – OXY-IS-D



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### Specifications

<b>Water Measures Dissolved Oxygen</b>	Access to water	Water pump is provided – OXY-IS-DFW
	Water Flow Through	User selectable
	Range	0-20 ppm
	Submersible Sensor	No pump required – <b>OXY-IS-DSUB</b>
	Handheld	
	Non-Fouling sensor	Submersible to 60 ft (18m) depth
	Range	0-20 ppm Ideal for aeration lagoons, sewers
<b>Operation</b>	Start-up time	Stable reading within 15 sec.
	Analog signal	4-20 mA, linear.
	Calibration	Recommended monthly (span only). True zero is absence of O <sub>2</sub>
	Transmission distance	To 5-miles (8km) over 18 AWG cable.
	Accuracy	0.5% within 10C of cal temp, 1% over operating temp range
	Linearity	0.5%
	Hysteresis	None observed.
<b>Environmental Effects</b>	Temperature	Operating: 0 to 40C (32 to 104F).
	Humidity	0-100%.
	Altitude/Pressure	Re-calibrate if altitude changes more than 1000 ft.




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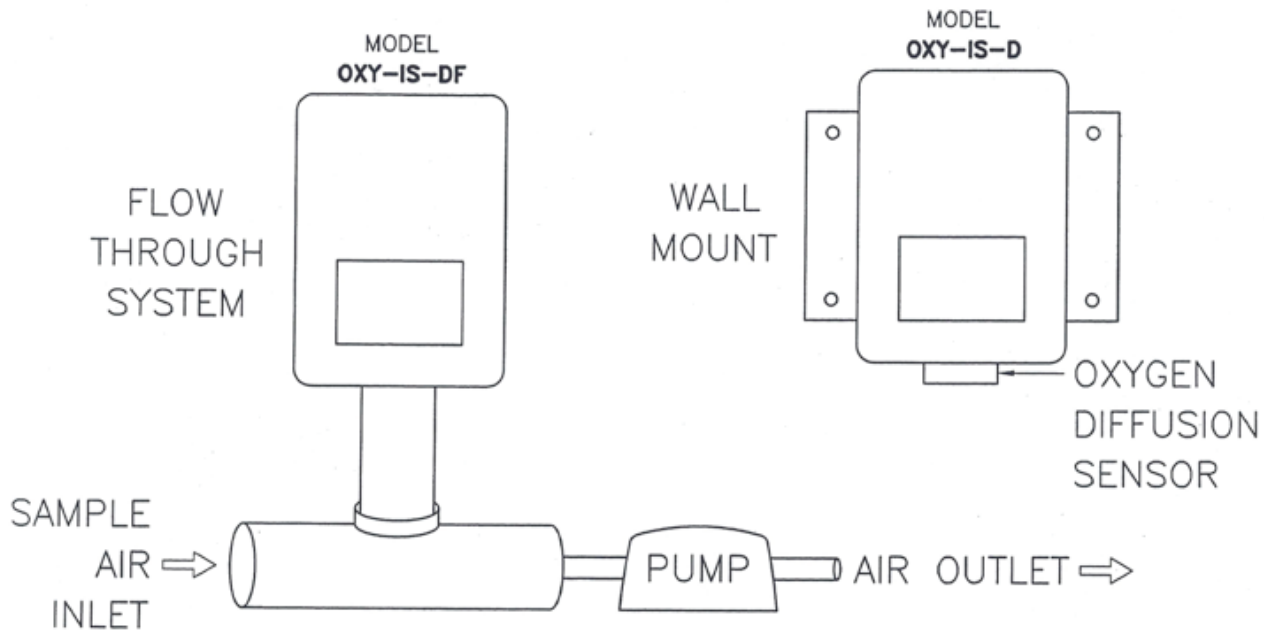
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### Special Features

Power indicator	Amber LED indicates current flow.
Front panel meter	3-1/2 digital LCD display.
Temp. compensation	Thermistor circuit.
Repair	Modular replacement w/connectors
Test/cal jack	Standard 1/8" for external ammeter.
Cell dust cover	Supplied; removable for calibration
Calibration adapter	Plastic, for 1/8" (.3 mm) ID tubing
Calibration kit	Has two O2 (17 liter) tanks, valves, flowmeter, tubing in plastic tackle box.
Flow meter	Electronic Mass Flow meter



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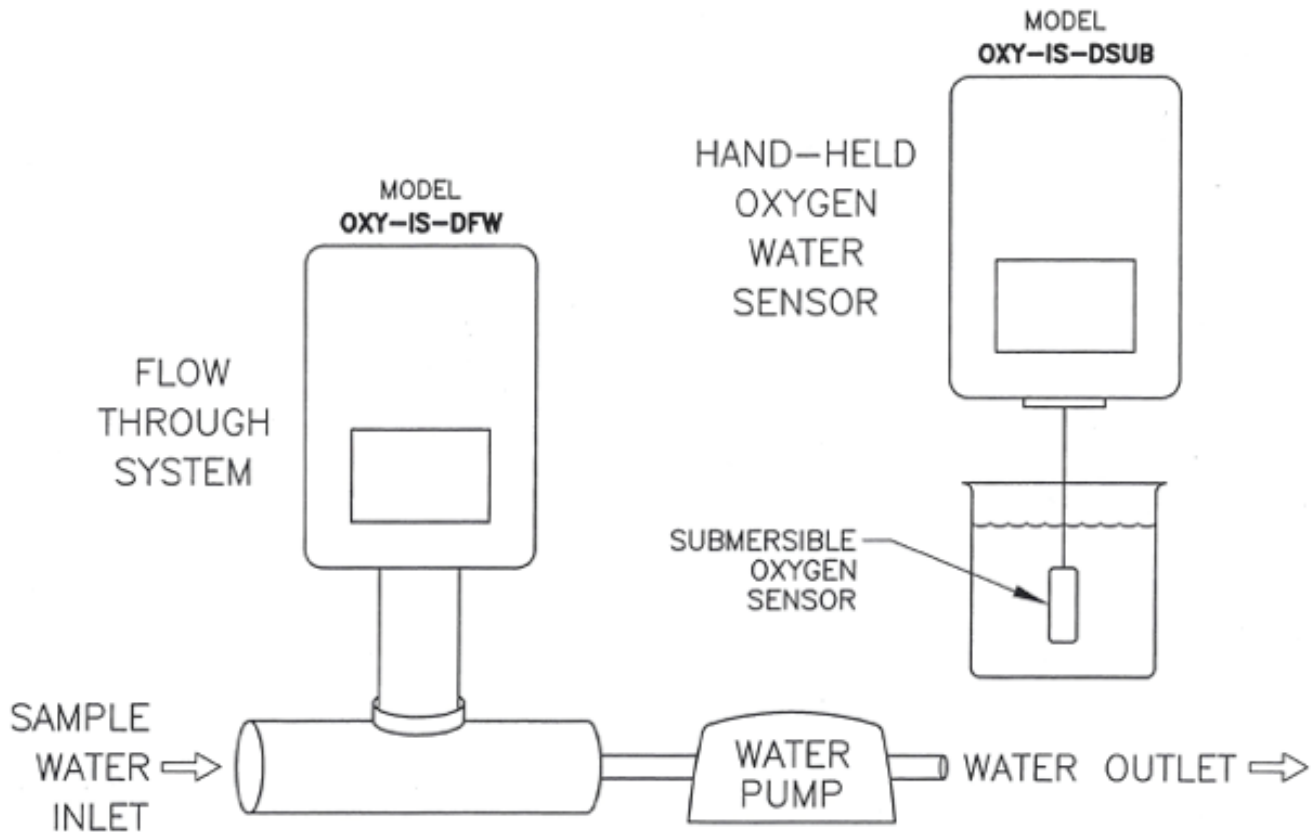
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Flow Diagram for OXY-IS Water Series



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