



Submersible Galvanic Dissolved Oxygen Sensors



Large Solution Capacity for Long Term Deployment

Models with and without Temperature Sensor

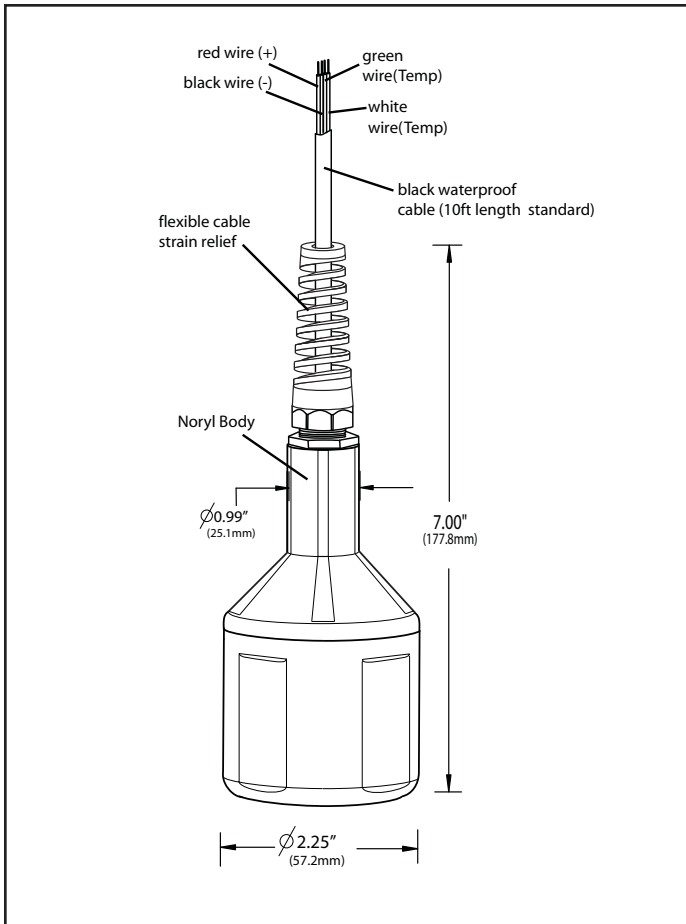
Easy installation and maintenance

mV or 4-20mA Output Models Available

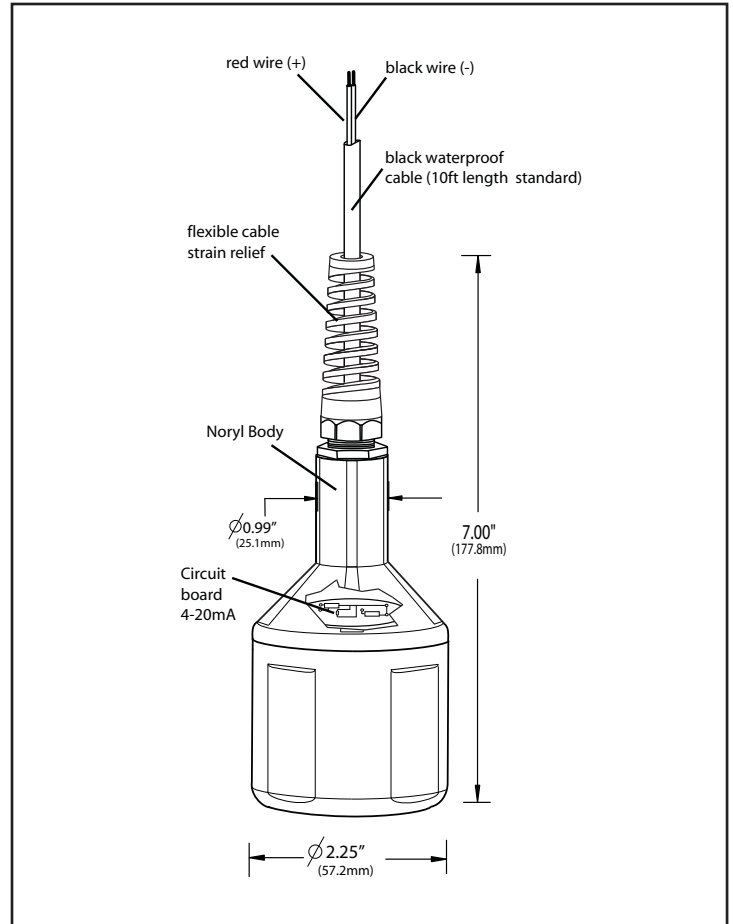
The DO6400 & 7400 series dissolved oxygen sensors feature a large capacity electrolyte holder, positive fit, easy to replace membrane and dependable galvanic cell technology for long term deployment. The body design ensures a good grip when wet. Ideal for Aquaculture and wastewater monitoring applications, these sensors require minimal maintenance. Teflon or High-Density Polyethylene (HDPE) membranes are available. Replacement membranes, installation tool and electrolyte are sold separately or as a convenient kit. Sensors with mV output as well as built-in 4-20mA output in 0-100% and 0-200% saturation range are available.

| Specifications | |
|--------------------------------|---|
| O ₂ Measuring Range | DO6400 (0.5-20ppm), DO6441(0-100%), DO6442(0-200%) DO7400 (0.03-20ppm), DO7441(0-100%), DO7442(0-200%) |
| Body material | Noryl |
| Cathode | Silver |
| Anode | Zinc (DO6400 Series), Lead (DO7400 Series) |
| Maximum Temperature | 50 Degrees C |
| Power Requirement | 12-36V DC (for models DO6441, DO6442, DO7441 and DO7442 only) |
| Temperature Sensor | (User specified temperature elements) - Connect to your controller or PLC for temperature output |
| Cable length | 10 feet, tinned leads |
| Minimum Flow rate | 2 inches per second |
| Output @ Air saturation | HDPE DO6400 & DO7400(45mV +/- 9mV) Teflon DO6400 & DO7400(33mV +/- 9mV) HDPE & Teflon DO6441, DO7441(0-100%) - fixed 4.5mA = <1 ppm DO HDPE & Teflon DO6441, DO7441 (0-100%)- fixed 15-20 mA = saturated air HDPE & Teflon DO6442, DO7442 (0-200%)- fixed 4.5mA = <1 ppm DO HDPE & Teflon DO6442, DO7442 (0-200%) - fixed 10-12 mA = saturated air |

OUTLINE DRAWING AND DIMENSIONS
FOR DO6400 SERIES SENSORS



OUTLINE DRAWING AND DIMENSIONS
FOR 4-20mA SERIES SENSORS





ORDERING INFORMATION

Sensors

| Part No. | Description |
|-------------|--|
| DO6400-H | DO Sensor, HDPE Membrane |
| DO6400-T | DO Sensor, Teflon Membrane |
| DO6400-H-TC | DO Sensor, HDPE Membrane, supplied with customer specified temperature element |
| DO6400-T-TC | DO Sensor, Teflon Membrane, supplied with customer specified temperature element |
| DO6441-H | DO Sensor, HDPE Membrane, 4-20mA (0-100% sat.) |
| DO6441-T | DO Sensor, Teflon Membrane, 4-20mA (0-100% sat.) |
| DO6442-H | DO Sensor, HDPE Membrane, 4-20mA (0-200% sat.) |
| DO6442-T | DO Sensor, Teflon Membrane, 4-20mA (0-200% sat.) |
| DO7400-H | DO Sensor, HDPE Membrane (low range) |
| DO7400-T | DO Sensor, Teflon Membrane (low range) |
| DO7400-H-TC | DO Sensor, HDPE Membrane, (low range) supplied with customer specified temperature element |
| DO7400-T-TC | DO Sensor, Teflon Membrane, (low range) supplied with customer specified temperature element |
| DO7441-H | DO Sensor, HDPE Membrane, (low range) 4-20mA (0-100% sat.) |
| DO7441-T | DO Sensor, Teflon Membrane, (low range) 4-20mA (0-100% sat.) |
| DO7442-H | DO Sensor, HDPE Membrane, (low range) 4-20mA (0-200% sat.) |
| DO7442-T | DO Sensor, Teflon Membrane, (low range) 4-20mA (0-200% sat.) |

Note: 1) All DO sensors are shipped dry with membrane preinstalled
2) All DO sensors are shipped with 2 membranes, 2 membrane o-rings, 1 membrane removal tool and 1 each 250mL of electrolyte (enough for about 4 refills).

Accessories

| Part No. | Description |
|----------|--|
| DO6050-H | Membrane maintenance kit for DO6400 Series sensors 5 each HDPE membranes, 5 each membrane o-rings, 5 each tensioning washer, 1 bottle (250mL) electrolyte |
| DO6050-T | Membrane maintenance kit for DO6400 Series 5 each Teflon membranes, 5 each membrane o-rings, 5 each tensioning washer 1 bottle(250mL) electrolyte |
| DO6051-H | Membrane maintenance kit for DO6400 Series 25 each HDPE membranes, 25 each membrane o-rings, 25 each tensioning washer, 3 bottles(500mL ea) electrolyte |
| DO6051-T | Membrane maintenance kit for DO6400 Series 25 each Teflon membranes, 25 each membrane o-rings, 25 each tensioning washer, 3 bottles(500mL ea) electrolyte |
| DO6052 | Spare Parts kit for DO6400 & DO7400 Series sensors. Contains: 2 each membrane lock, 2 each tensioning washer, 2 each body o-rings, 1 membrane replacement tool |
| DO7050-H | Membrane maintenance kit for DO7400 Series sensors 5 each HDPE membranes, 5 each membrane o-rings, 5 each tensioning washer, 1 bottle (250mL) electrolyte |
| DO7050-T | Membrane maintenance kit for DO7400 Series 5 each Teflon membranes, 5 each membrane o-rings, 5 each tensioning washer 1 bottle(250mL) electrolyte |
| DO7051-H | Membrane maintenance kit for DO7400 Series 25 each HDPE membranes, 25 each membrane o-rings, 25 each tensioning washer, 3 bottles(500mL ea) electrolyte |
| DO7051-T | Membrane maintenance kit for DO7400 Series 25 each Teflon membranes, 25 each membrane o-rings, 25 each tensioning washer, 3 bottles(500mL ea) electrolyte |