

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. PTFE or High-Density Polyethylene (HDPE) membranes are available. 2 Replacement membranes, installation tool and electrolyte are included. Additional maintenance parts are in convenient kits (see ordering information). Sensors with mV output as well as built-in 4-20mA output in 0-100% and 0-200% saturation range are available.

Specifications

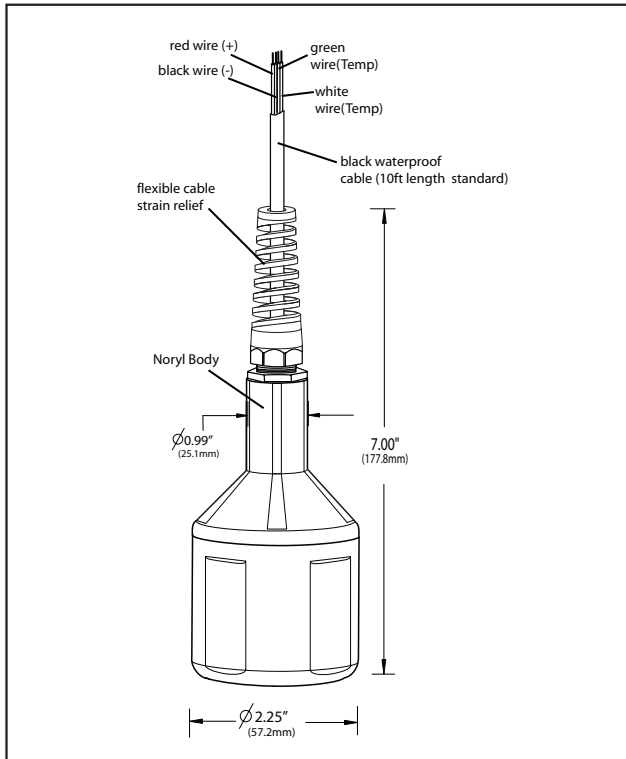
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|--------------------------------------|--|
| O₂ Measuring Range | DO6400, DO6400TC (0.5-20ppm), DO6441(0-100%), DO6442(0-200%) DO7400, DO7400TC (0.03-20ppm), DO7441(0-100%), DO7442(0-200%) |
| Body Material | Noryl |
| Cathode | Silver |
| Anode | 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) PTFE DO6400 & DO7400 (33mV +/- 9mV) HDPE & PTFE DO6441, DO7441(0-100%) - fixed 4 - 4.5mA = <1 ppm DO HDPE & PTFE DO6441, DO7441 (0-100%)- fixed 18-22 mA = saturated air HDPE & PTFE DO6442- fixed 4 - 4.5mA = <1 ppm DO HDPE & PTFE DO6442- fixed 11-13 mA = saturated air |

Parts covered by this product data sheet include:

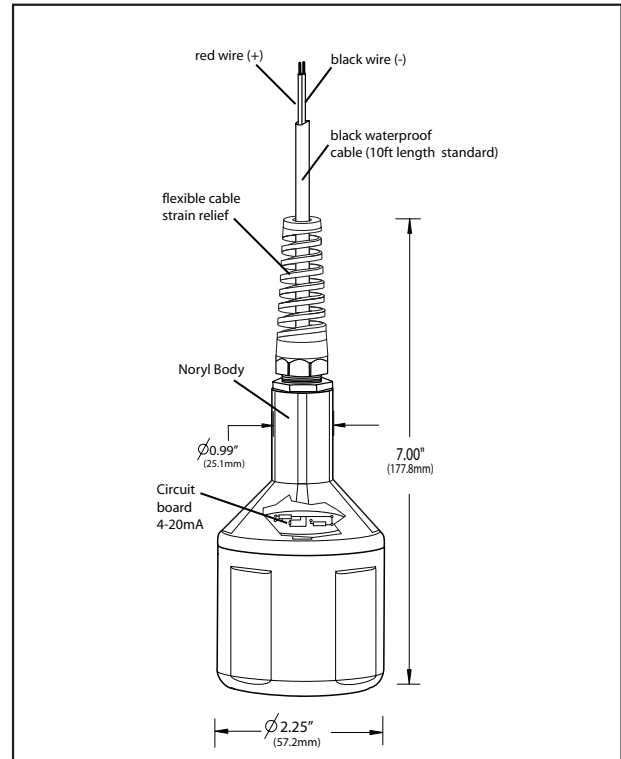
DO6400/H, DO6400/T, DO6400TC/H, DO6400TC/T, DO6441/T, DO6442/T,
DO7400/H, DO7400/T, DO7400TC/H, DO7400TC/T, DO7441/T,

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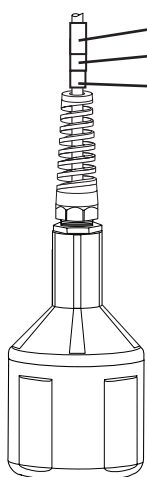
OUTLINE DRAWING AND DIMENSIONS FOR DO6400 and DO7400 SERIES SENSORS



OUTLINE DRAWING AND DIMENSIONS FOR 4-20mA SERIES SENSORS



HOW TO IDENTIFY YOUR SENSOREX DISSOLVED OXYGEN(DO) SENSOR



Cable Shrink

| Part Number | Shrink Colors | | |
|-------------|---------------|--------|-------|
| | #1 | #2 | #3 |
| DO6400 | N/A | N/A | N/A |
| DO7400 | white | N/A | N/A |
| DO6441 | yellow | N/A | N/A |
| DO6442 | green | yellow | N/A |
| DO7441 | yellow | white | N/A |
| DO7442 | green | yellow | white |

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ORDERING INFORMATION

Sensors

| Part No. | Description |
|---|--|
| DO6400/H | DO Sensor, HDPE Membrane |
| DO6400/T | DO Sensor, PTFE Membrane |
| DO6400TC/H | DO Sensor, HDPE Membrane, supplied with customer specified temperature element |
| DO6400TC/T | DO Sensor, PTFE Membrane, supplied with customer specified temperature element |
| DO6441/T | DO Sensor, PTFE Membrane, 4-20mA (0-100% sat.) |
| DO6442/T | DO Sensor, PTFE Membrane, 4-20mA (0-200% sat.) |
| DO7400/H | DO Sensor, HDPE Membrane (low range) |
| DO7400/T | DO Sensor, PTFE Membrane (low range) |
| DO7400TC/H | DO Sensor, HDPE Membrane, (low range) supplied with customer specified temperature element |
| DO7400TC/T | DO Sensor, PTFE Membrane, (low range) supplied with customer specified temperature element |
| DO7441/T | DO Sensor, PTFE Membrane, (low range) 4-20mA (0-100% sat.) |
| DO7442/T | DO Sensor, PTFE 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 6 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 (500mL) electrolyte, 1 body o-ring |
| DO6050/T | Membrane maintenance kit for DO6400 Series: 5 each PTFE membranes, 5 each membrane O-rings, 5 each tensioning washer 1 bottle (500mL) electrolyte, 1 body o-ring |
| 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, 5 body o-rings |
| DO6051/T | Membrane maintenance kit for DO6400 Series 25 each PTFE membranes, 25 each membrane O-rings, 25 each tensioning washer, 3 bottles (500mL ea) electrolyte, 5 body o-rings |
| 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 |
| DO6054/T | 25 each PTFE membranes, 25 each membrane O-rings |
| DO6054/H | 25 each HDPE membranes, 25 each membrane O-rings |
| DO7050/H | Membrane maintenance kit for DO7400 Series sensors 5 each HDPE membranes, 5 each membrane O-rings, 5 each tensioning washer, 1 bottle (500mL) electrolyte, 1 body o-ring |
| DO7050/T | Membrane maintenance kit for DO7400 Series 5 each PTFE membranes, 5 each membrane O-rings, 5 each tensioning washer 1 bottle (500mL) electrolyte, 1 body o-ring |
| 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, 5 body o-rings |
| DO7051/T | Membrane maintenance kit for DO7400 Series 25 each PTFE membranes, 25 each membrane O-rings, 25 each tensioning washer, 3 bottles (500mL ea) electrolyte, 5 body o-rings |



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