

Submersible Galvanic Dissolved Oxygen Sensors

Special Features:

- Large solution capacity for long term deployment
- Models with and without temperature sensor
- Easy installation and maintenance
- mV or 4-20mA output models available

Applications:

The DOT-6400 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.



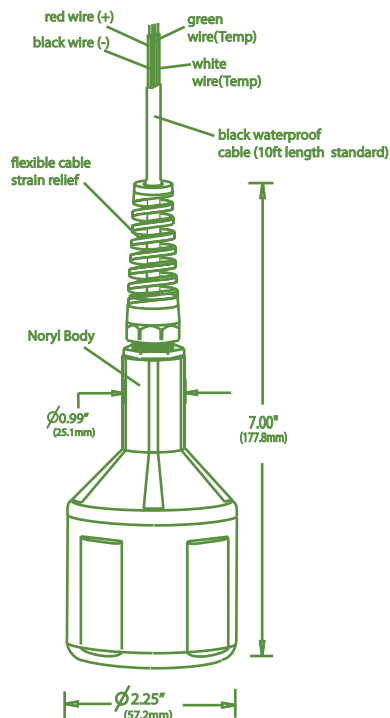
Specifications:

O ₂ Measuring Range	: DOT6400, DOT6400TC (0.5-20ppm), DOT6441(0-100%), DOT6442(0-200%) DOT7400, DOT7400TC (0.03-20ppm), DOT7441(0-100%), DOT7442(0-200%)
Body Material	: Noryl
Cathode	: Silver
Anode	: Zinc (DOT6400 Series), Lead (DOT7400 Series)
Maximum Temperature	: 50°C
Power Requirement	: 12-36V DC (for models DOT6441, DOT6442, DOT7441 and DOT7442 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 DOT6400 & DOT7400 (45mV +/- 9mV) PTFE DOT6400 & DOT7400 (33mV +/- 9mV) HDPE & PTFE DOT6441, DOT7441(0-100%) - fixed 4 - 4.5mA = <1 ppm DO HDPE & PTFE DOT6441, DOT7441 (0-100%)- fixed 18-22 mA = saturated air HDPE & PTFE DOT6442- fixed 4 - 4.5mA = <1 ppm DO HDPE & PTFE DOT6442- fixed 11-13 mA = saturated air

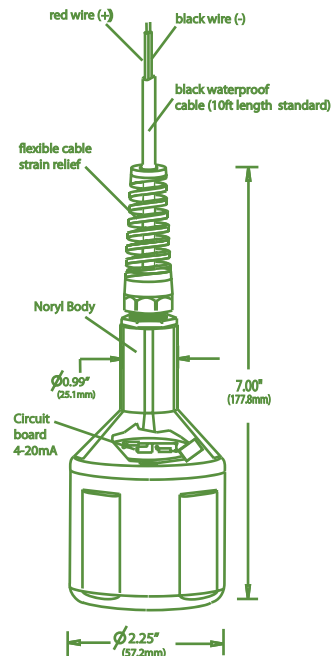


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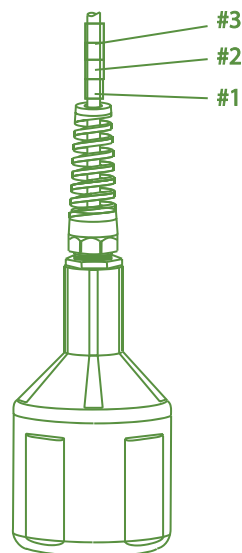
FOR DOT6400 and DOT7400 SERIES SENSORS



FOR 4-20mA SERIES SENSORS



HOW TO IDENTIFY YOUR OMICRON DISSOLVED OXYGEN(DO) SENSOR



Cable Shrink

Part Number	Shrink Colors		
	#1	#2	#3
DOT6400	N/A	N/A	N/A
DOT7400	white	N/A	N/A
DOT6441	yellow	N/A	N/A
DOT6442	green	yellow	N/A
DOT7441	yellow	white	N/A
DOT7442	green	yellow	white

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HOW TO ORDER



Sensors

Part No.	Description
DOT6400/H	DOT Sensor, HDPE Membrane
DOT6400/T	DOT Sensor, PTFE Membrane
DO6400TC/H	DOT Sensor, HDPE Membrane, supplied with customer specified temperature element
DOT6400TC/T	DOT Sensor, PTFE Membrane, supplied with customer specified temperature element
DOT6441/T	DOT Sensor, PTFE Membrane, 4-20mA (0-100% sat.)
DOT6442/T	DOT Sensor, PTFE Membrane, 4-20mA (0-200% sat.)
DOT7400/	DOT Sensor, HDPE Membrane (low range)
DOT7400/T	DOT Sensor, PTFE Membrane (low range)
DOT7400TC/H	DOT Sensor, HDPE Membrane, (low range) supplied with customer specified temperature element
DOT7400TC/T	DOT Sensor, PTFE Membrane, (low range) supplied with customer specified temperature element
DOT7441/T	DOT Sensor, PTFE Membrane, (low range) 4-20mA (0-100% sat.)
DOT7442/T	DOT 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).	



FOR 4-20mA SERIES SENSORS

Part No.	Description
DOT6050/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
DOT6050/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
DOT6051/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
DOT6051/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
DOT6052	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
DOT6054/T	25 each PTFE membranes, 25 each membrane O-rings
DOT6054/H	25 each HDPE membranes, 25 each membrane O-rings
DOT7050/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
DOT7050/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
DOT7051/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
DOT7051/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

