

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

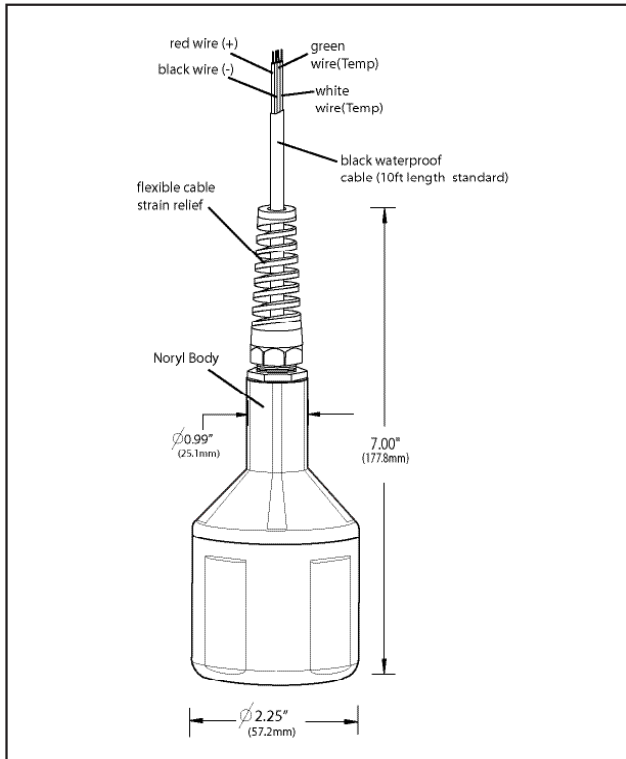
O₂ Measuring Range	DO6400, DO6400TC (0.5-20ppm), DO6441(0-100%), DO6442(0-200%) DO7400, DO7400TC (0.03-20ppm), DO7441(0-100%), DO7442(0-200%)
Body Material	Noryl
Cathode	Silver
Anode	Zinc (DO6400 Series), Lead (DO7400 Series)
Maximum Temperature	50 Degrees C
Power Requirement	12-36V DC (for models DO6441, 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) PTFE DO6441, DO7441(0-100%) - fixed 4 - 4.5mA = <1 ppm DO PTFE DO6441, DO7441 (0-100%)- fixed 18-22 mA = saturated air PTFE DO6442- fixed 4 - 4.5mA = <1 ppm DO PTFE DO6442- fixed 11-13 mA = saturated air

Parts covered by this product data sheet include:

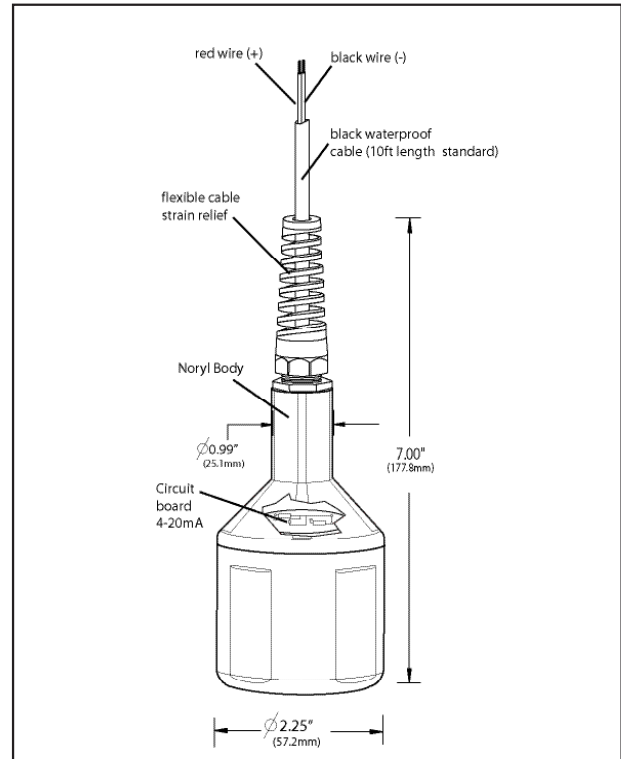
DO6400/H, DO6400/T, DO6400TC/H, DO6400TC/T, DO6441/T, DO6442/T,
DO7400/H, DO7400/T, DO7400TC/H, DO7400TC/T, DO7441/T,

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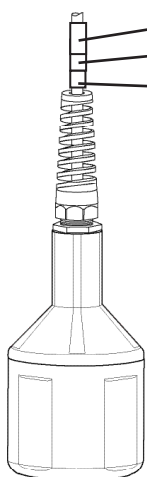
OUTLINE DRAWING AND DIMENSIONS FOR DO6400 and DO7400 SERIES SENSORS



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.)
DO6441TC/T	DO Sensor, PTFE Membrane, 4-20mA (0-100% sat.) with customer supplied temperature element
DO6442/T	DO Sensor, PTFE Membrane, 4-20mA (0-200% sat.)
DO6442TC/T	DO Sensor, PTFE Membrane, 4-20mA (0-200% sat.) with customer supplied temperature element
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.)
DO7441TC/T	DO Sensor, PTFE Membrane, (low range) 4-20mA (0-100% sat.) with customer supplied temperature element
DO7442/T	DO Sensor, PTFE Membrane, (low range) 4-20mA (0-200% sat.)
DO7442TC/T	DO Sensor, PTFE Membrane, (low range) 4-20mA (0-100% sat.) with customer supplied temperature element
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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