GALVANIC DISSOLVED OXYGEN SENSORS

Digital Communication for More Process Visibility:

- Modbus and 4-20 mA output options now available
- Configuration and calibration can be done using web based software

Easy to Install and Maintain

- Membranes can be replaced quickly
- Designed to have good grip even when sensor is wet

Long Lasting Life

- Proven and dependable galvanic cell technology with large solution capacity
- Replacement membranes, electrolyte, and installation tool are included

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. In addition, Modbus-485 output versions with 0-150% or 0-300% 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%), DO6441-MB2 (0-150%), DO6442-MB-300 (0-300%)
Body Material	Noryl
Cathode	Silver
Anode	Zinc (DO6400 Series), Lead (DO7400 Series)
Maximum Temperature	50˚ C
Power Requirement	12-36V DC (for Models DO6441, DO6442, DO7441 and DO7442 only), 24V DC for Modbus
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, 18-22 MA = SATURATED AIR, HDPE & PTFE DO6442 - fixed 4 -4.5mA = <1 ppm DO, 11-13mA = saturated air, PTFE DO6441-MB2 = 0-150% modbus 485, PTFE DO6442-MB2-300 = 0-300% MODBUS 485

DESIGNED AND ASSEMBLED IN CALIFORNIA, USA
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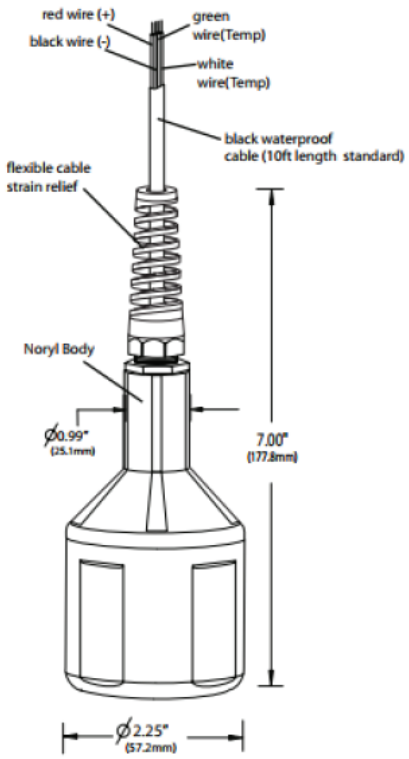
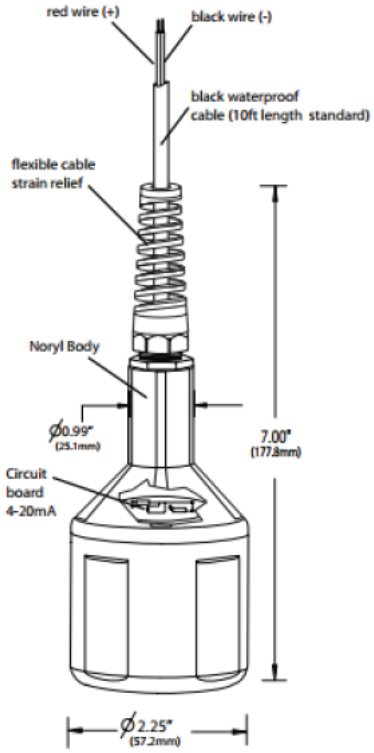
GALVANIC DISSOLVED OXYGEN SENSORS

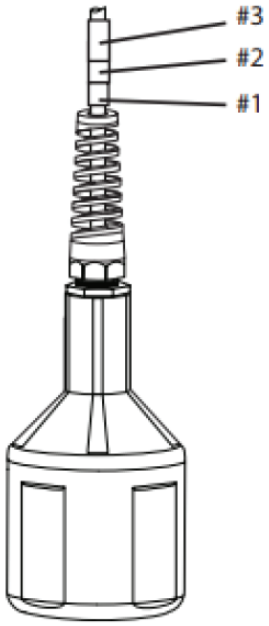
Dimensional Views

DO6400 and DO7400 Series Sensors



4-20mA Series Sensors





Cable Shrink

Cable Shrink

Part #	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

DO6400TC/T - MB - 100	- RED #1 Only
DO6400TC/T - MB - 300	- RED #1, BLUE #2

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Ordering Information

Sensors

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). 3) 12V powered sensors available upon request. Contact Sensorex for details.

Part #	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.)
DO6441/T-MB23	DO Sensor, PTFE Membrane, Modbus output (0-150% SAT)
DO6442/T	DO Sensor, PTFE Membrane, 4-20mA (0-200% sat.)
DO6442/T-MB23	DO Sensor, PTFE Membrane, Modbus output (0-300% SAT)
DO7400/H	DO Sensor, PTFE 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.)

Acessories

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 (500 mL) 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
DO6051T	Membrane maintenance kit for DO6400 Series 25 each PTFE membranes, 25 each membrane O-rings, 25 each tensioning washer, 3 bottles (500mL ea) elecrolyte, 5 body o-rings
DO6052	Spare Parts kits for DO6400 & DO7400 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

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MODEL # D0644

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DESCRIPTION	CODE
MEASUREMENT RANGE	
0-150%	1
0-300%	2
COMMUNICATION & POWER	
4-20mA Output	- MA
Modbus output with 12VDC	- MB1
Modbus output with 24VDC	- MB2
PROCESS FITTING	
Teflon	T
CABLE LENGTH	
10 Foot cable	10
LEADS	
Tinned Lead Connector	TL/TL
CALIBRATION ACCESSORY	
None (Replacement probe)	
Calibration Box *(Only 1 needed for multiple sensors)*	CALBOX - MB

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