



# GALVANIC DISSOLVED OXYGEN SENSORS

## PRODUCT SPECIFICATION SHEET



**Large solution capacity for long term deployment**

**Models with and without temperature sensor**

**Easy installation and maintenance**

**mV, 4-20mA and Modbus-485 outputs 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. In addition, Modbus-485 output versions with 0-100% or 0-300% range are available.

### SPECIFICATIONS

<b>O2 Measuring Range</b>	DO6400, DO6400TC (0.5-20ppm), DO6441 (0-100%), DO6442 (0-200%) DO7400, DO7400TC (0.03-20ppm), DO7441 (0-100%), DO7442 (0-200%) DO6441-MB (0-100%), DO6442-MB (0-300%)
<b>Body Material</b>	Noryl
<b>Cathode</b>	Silver
<b>Anode</b>	Zinc (DO6400 Series), Lead (DO7400 Series)
<b>Maximum Temperature</b>	50 Degrees C
<b>Power Requirement</b>	12-36V DC (for Models DO6441, DO6442, DO7441 and DO7442 only)
<b>Temperature Sensor</b>	(User specified temperature elements) Connect to your controller or PLC for temperature output
<b>Cable Length</b>	10 feet, tinned leads
<b>Minimum Flow Rate</b>	2 inches per second
<b>Output @ Air Saturation</b>	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-MB = 0-100% modbus 485  PTFE DO6442-MB = 0-300% modbus 485

PARTS COVERED BY THIS PRODUCT DATA SHEET INCLUDE: DO6400/H, DO6400/T, DO6440TC/H, DO6400C/T, DO6441/T, DO6442/T, DO7400/H, DO7400/T, DO7400TC/H, DO7400TC/T, DO7441/T, DO6441-T-MB, DO6442-T-MB

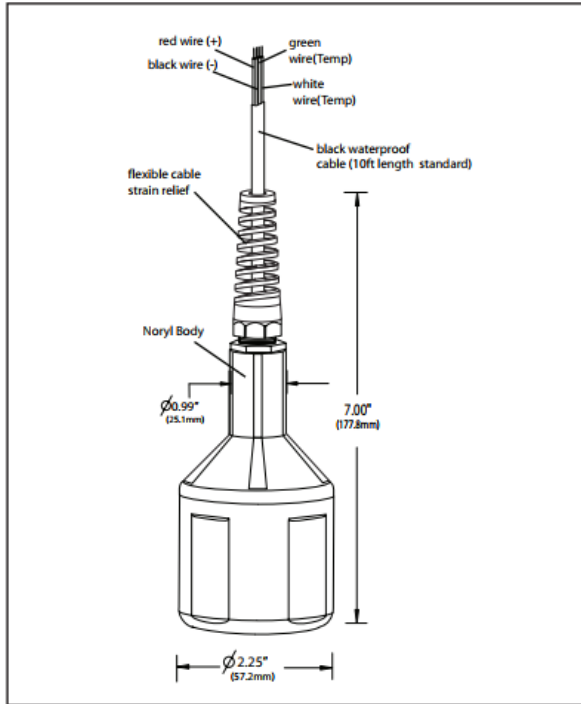
DO6400SPECS-12072023

DESIGNED AND ASSEMBLED IN CALIFORNIA, USA

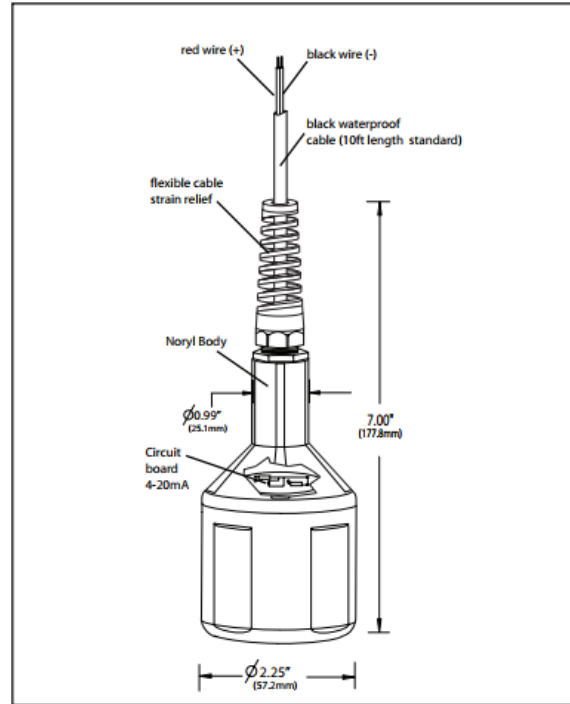
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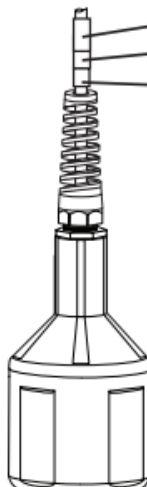
## OUTLINE DRAWING AND DIMENSIONS FOR DO6400 and DO7400 SERIES SENSORS



## 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

DO6441/T-MB - NO SHRINK, SEE MARKING ON SENSOR  
DO6442/T-MB - NO SHRINK, SEE MARKING ON SENSOR

## ORDERING INFORMATION

### SENSORS

Part No.	Description
<b>DO6400/H</b>	DO Sensor, HDPE Membrane
<b>DO6400/T</b>	DO Sensor, PTFE Membrane
<b>DO6400TC/H</b>	Do Sensor, HDPE Membrane, supplied with customer specified temperature element
<b>DO6400TC/T</b>	DO Sensor, PTFE Membrane, supplied with customer specified temperature element
<b>DO6441/T</b>	DO Sensor, PTFE Membrane, 4-20mA (0-100% sat.)
<b>DO6442/T</b>	DO Sensor, PTFE Membrane, 4-20mA (0-200% sat.)
<b>DO7400/H</b>	DO Sensor, PTFE Membrane, (low range)
<b>DO7400/T</b>	DO sensor, PTFE Membrane (low range)
<b>DO7400TC/H</b>	DO Sensor, HDPE Membrane, (low range) supplied with customer specified temperature element
<b>DO7400TC/T</b>	DO Sensor, PTFE Membrane, (low range) supplied with customer specified temperature element
<b>DO7441/T</b>	DO Sensor, PTFE Membrane, (low range) 4-20mA (0-100% sat.)
<b>DO7442/T</b>	DO Sensor, PTFE Membrane, (low range) 4-20mA (0-200% sat.)
<b>DO6441/T-MB</b>	DO Sensor, PTFE Membrane, Modbus 485 (0-100% sat.)
<b>DO6442/T-MB</b>	DO Sensor, PTFE Membrane, Modbus 485 (0-300% 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).



**CALBOX-MB**

### ACCESSORIES

Part No.	Description
<b>DO6050/H</b>	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
<b>DO6050/T</b>	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
<b>DO6051/H</b>	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
<b>DO6051T</b>	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
<b>DO6052</b>	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
<b>DO6054/T</b>	25 each PTFE membranes, 25 each membrane O-rings
<b>DO6054/H</b>	25 each HDPE membranes, 25 each membrane O-rings
<b>DO7050/H</b>	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
<b>DO7050/T</b>	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
<b>DO7051/H</b>	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
<b>CALBOX-MB</b>	Interface box for Modbus sensors to read output on computer

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