



Industrial



Aerospace



Biomedical



Medical

TauTheta Instruments' SOO-100-OEM solution for integrating optical oxygen measurements into custom solutions uses stable, TauTheta RuggedO₂TM Sensors for accurate, drift-free oxygen measurements. Its small size, standard optics connections and low-power consumption make it ideal for a wide variety of applications.



SOO-100-OEM

- *Cost-effective, completely turnkey Optical Oxygen Instrument*
- *RuggedO₂TM Sensors configurable to a variety of applications*
- *Accurate, stable and reliable oxygen measurements from a proven system*
- *Flexible digital input/output and analog output options*

Please contact us to discuss your application needs:

sales@tautheta.com

1-800-922-8463

1-970-498-1687

SENSOR SOLUTIONS:



RuggedO₂™ Sensor



Circuit board



Sensing film

APPLICATIONS:

- Bio process control
- Cell culture monitoring
- Water quality analysis
- Industrial process control
- Food & beverage process control
- Enzyme & drug screening



TauTheta's optical oxygen OEM solutions are easily integrated into existing systems.

Instrument Parameters	
O ₂ , Torr	154.7961
O ₂ %	24.3823
mg/L	8.2934
%Sat	116.3966
Pressure, Torr	634.8711
Temperature, C	24.8536

SPECIFICATIONS:

Parameters Measured:	Range:	Accuracy @ 25°C:	Resolution:
Oxygen	0 to 800 partial pressure O ₂ in Torr	+/- 2 Torr up to 160 Torr & +/- 3% of full scale from 160 to 800 Torr with user calibration at 25°C	0.001 Torr
Dissolved oxygen	0 – 20 mg/L; 200% saturation at atmospheric pressure	+/- 0.1 mg/L up to 8 mg/L & +/- 0.2 mg/L from 8 – 20 mg/L	0.001 mg/L
Temperature	0 – 50°C	+/- 0.2°C	0.001°C
Barometric pressure	0 – 1500 Torr; 0 – 29 psia	+/- 2% typical, +/- 6% max	0.001 Torr

Signal Input/Output:

Digital inputs	Polling input (0 - 5V TTL level)
Analog outputs (external)	3 output channels. Each channel 1 - 5V and 4-20 mA (current and voltage available on DIP Screw header)
Digital outputs	4 TTL (Transistor-Transistor Logic) level digital outputs

Size:

RuggedO ₂ ™ Sensor	~ 2.4 mm diameter x 102 mm
Circuit Board	~ 100 mm x 70 mm x 1.5 mm
Instrument	~ 108 mm x 79 mm x 28 mm

Power Requirements:

USB

RuggedO₂™ Sensors:

2.4 mm fiber optic stainless steel probe with bifurcated fiber using SMA connectors; sensors can be configured into a variety of devices and vessels

Communications:

USB host software designed to work with Microsoft® Windows® XP and Windows Vista™ operating systems