CMD-430 PPM Oxygen Transmitter

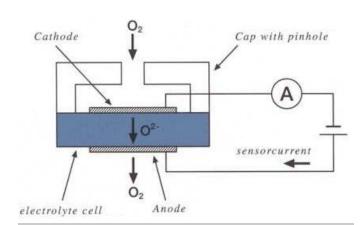


Oxygen Analysis from 1 to 1000 PPM (Additional Ranges Available)

No Periodic Calibration Required (Calibrated for Life From Factory)

Configured for Glove Box Application's (Sensor Mounted in KF-40 Adapter)

Southland Sensing Ltd.



Schematic of Sensor Element

Principle of Operation:

When voltage is applied to the electrolyte cell, oxygen is pumped through the Zirconia disc from the cathode to the anode because the carriers of current flowing through the electrolyte are oxygen ions. By attaching a cap with a pinhole on the cathode side of the cell and by increasing the voltage over the cell the current shows saturation due to the rate limiting step in the transfer of oxygen to the cathode. This saturation current is called limiting current and is proportional to the ambient oxygen concentration.

Not Recommended With the following Apps:

Gases which contain halogens such as F, CL, Br
Wet Gas Streams
Flammable Gases due to high temperature
SOx and H2S will shorten life

Performance Specifications:

Specify Oxygen Sensor Model:

MO2 - 1 1 — 1000 PPM

MO2 - 2 0.1 — 25 Percent

MO2 - 3 1.0 — 96 Percent

Accuracy: +/- 1% Full Scale Range

Calibration: NOT Required by User

Classification: General Purpose

Connections: KF40 Flange

Dimensions: Sensor: 2.16" x 0.75"

Dimensions: Board: 4.75" x 3.95"

Display: None

Flow: 0 - 3 SCFH

Output: 0 - 5V

Power: 12 — 28 VDC

Response time: T90 2 — 10 Seconds

Sensor Life: > 15,000 Hours in use

Temperature: Max 350 deg C Ambient

Warm up: Approximately 2 minutes

Warranty: 12 Months

Optional Accessories:

Flow Through Sensor Housing w/ 1/8" NPT Integral Sampling Pump Intrinsically Safe (IS) Barriers