

Datasheet: ESCM-37/38 Oxygen Transmitter



This long life 0-25% or 0-95% oxygen level transmitter provides multiple analog linear outputs of O₂ concentrations. It is designed to be rugged, maintenance-free and can be calibrated in normal air of any known oxygen concentration.

FEATURES:

- Measuring ranges 25% or 95% Oxygen
- Can be calibrated in normal air or any known O₂ concentration
- Non-consumptive technology
- Automatic or manual calibration
- Linear 0...10 V, 4...20 mA or RS232 output of measured oxygen content

O₂ Measurement

Measurement Range	0 – 25%
Sensing Method	Zirconium dioxide (ZrO ₂)
Sampling Method	diffusion
Response Time	4 sec max diffusion time
Sensitivity	± 20 ppm ± 1 % of measured value
Accuracy	2% full scale
Pressure Range	2 to 3000 mbar

General Performance

Operating Temperature Range	-10 to +70 °C
Storage Temperature Range	-10 to +70 °C
Operating Humidity Range	0 to 95% RH (non-condensing)
Sensor Life Expectancy	> 10 years
Maintenance Interval	no maintenance required
Self-Diagnostics	complete function check of the sensor module
Warm-up Time	≤ 100 sec
Operating Environment	Laboratory, residential, commercial, industrial spaces

Electrical/Mechanical

Power Input.....	24VDC ±10%
Current Consumption	600 mA @ 24VDC
Dimensions	4.72 x 3.15 x 3.15 inches

Communication

Analog	Linear 0 to 10V
	Linear 4-20mA
Digital	RS232