MODEL 60

The AMI model 60 is the ideal solution for measuring percent level oxygen in in a general purpose environment. In a very small size, and at very low cost, it provides a basic electronic package with a single range voltage output using an AMI electrochemical sensor.

- Percent oxygen in flammable and non-flammable samples
- General purpose self-contained oxygen sensor.
- Patented AMI sensor.
- Temperature compensated
- Virtually unaffected by humidity changes
- Virtually unaffected by flow rate changes
- Calibration interval 6 months
- Very small size
- Standard 0-2.5V output
- Very low cost

The model 60 is not affected by flammable gases and it may be used with practically any background gas. It is temperature compensated over its operating range and it may be used outdoors since its enclosure and connections are weather-proof. It needs between 12 and 24VCD power at less than 20mA.

Its sensor is unaffected by flow rate changes over the range of 0.1 to 5 SCFH.

The model 60 is designed for integration into a user's system as a stand-alone oxygen sensor. In standard form, it provides a voltage output of 0-2.5V corresponding to 0-25% oxygen, while requiring minimal power. No provision is made for calibration – it is expected that the user will provide this functionality in the overall system.

Since the unit is not flow rate dependent a simple sample system is normally adequate, or it may be specified with a diffusion screen for ambient applications. Many optional ranges (0-1%, 0-2.5%, 0-50% and 0-100% are available).

Typical applications:

Nitrogen purity
Inert gas blanketing
Produce blanketing
Oxygen purity

SPECIFICATIONS

- Standard ranges:
- Single range: 0 - 25%
- Optional ranges: 0-1%, 0-2.5%, 0-50%, 0-100%.
- Sensitivity: 0.5% of full scale
- Repeatability: +/- 1% of full scale at constant temperature
- Operating temperature: 32 - 110°F
- Humidity: < 85%, non-condensing
- Operational conditions: Pollution degree 2, Installation category I I.
- Drift: < +/- 1% of full scale in 4 weeks at constant temperature
- Response time (with P2 sensor):
- 90% of full scale < 10 seconds
- Outputs: 0 - 2.5 VDC
- Power requirements: Between 7 and 28 VDC (nominally 24VDC) Typically 20 mA at 12Vwith no external draw from the 5V supply.
- Dimensions: 2.15 Dia. x 2" high (not including fittings or leads).
- Weight: less than 1 lb.
- Warranty: 2 years parts and labor.
- Sensor warranty: 6 months (P-2 sensor).

OPTIONS

- Display/control unit
- Diffusion screen
- Compression fittings
- Barbed fittings
- Sensor for high oxygen content (P-4)
- Sensor for CO2 background gas (P-3)
- Sensor for up to 500ppm H2S (P-5)
- Ranges 0-1%, 0-2.5%, 0-50% and 0-100%