



Advanced Micro Instruments, Inc.

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MODEL 65

The perfect low cost, high performance solution for measuring percent levels of oxygen in your OEM application. This 10-year life O₂ sensor easily integrates into your product design.

The **Model 65** is a perfect low cost, high performance solution for measuring percent levels of oxygen in a variety of OEM applications when displays, alarms and multiple ranges are not required or become redundant in your system design.

The Model 65 employs a revolutionary long life zirconium oxide sensor lasting up to 10 years if used continuously and considerably longer if used intermittently. This eliminates the need to purchase, stock, frequently calibrate or replace the standard galvanic type oxygen sensors, greatly reducing overall costs.

This device uses state-of-the-art microprocessor based electronics for single range linear analog outputs in either a voltage or a current. It provides unmatched stability and reliability even in rapid temperature swings from 0°F to +130°F.

The installation is simple, requires minimal space and a supply voltage of 10-28VDC.

It requires no support or calibration gases and is suitable for single range applications from 0-5% up to 0-95% oxygen. Annual calibrations can easily be performed on ambient air or a suitable level calibration gas.

MODEL 65 PERCENT OXYGEN PROBE

FEATURES

- Single measurement range
- RFI protected
- 0-2.5VDC or optional isolated 4-20mA. analog output
- Power requirements: 10-28VDC <2 watts
- Low minimum detection limit
- Excellent repeatability and stability
- Weather tight package
- Barbed fittings for gas connections. Optional ¼" compression fittings or Diffusion screen
- Low cost and virtually maintenance free over its entire life
- Requires no support or calibration gases, other than ambient air if desired
- 10 year life sensor. No annual sensor replacement or sensor shelf life issues
- Area Classification: Designed to meet General Purpose requirements
- Unaffected by changes in flow rate from 0.1 to 5.0 SCFH
- Supplied with wall mount bracket
- Compact size
- 2 year warranty for analyzer and sensor, parts and labor

SPECIFICATIONS

- **Standard measurement range:** 0- 25%
Optional ranges: 0-5%, 0-10%, 0-50% or 0-95%
- **Analog output signals:** 0-2.5VDC for 0-25% range
0-2.5VDC output for optional measurement ranges: 0-5%, 0-10%, 0-50%
0-4.00VDC output for optional measurement range: 0- 95%
Optional isolated 4-20mA output for any of the above measurement ranges
Note: Customer must supply span control function
- **Power requirements:** 10-28VDC <2 watts
- **Minimum detection:** 0.05% of oxygen
- **Repeatability:** +/- 0.1% of range or +/- 0.1% of oxygen, whichever is greater
- **Operating temperature range:** 0 to 130° F
- **Diurnal temperature specification:**
< +/- 2 % of scale over temperature range
- **90% full scale response times for specified range:**
0-25% <12 seconds; 0-95% < 12 seconds
- **Long life zirconium oxide sensor:** 10 year life expectancy
- **Area Classification:** Designed to meet General Purpose requirements
- **Inlet gas pressure for models using flow-through style fittings:** Standard barbed fittings: 1.0 to 30psig recommended. User must supply flow control from 0.1 to 5.0 SCFH.
Optional ¼" compression fittings: 1.0 to 30psig recommended. User must supply flow control from 0.1 to 5.0 SCFH.
Optional diffusion screen: For area monitoring at atmospheric pressure
- **Inlet gas pressure:** 1.0 to 30psig
- **Wetted parts:** Anodized aluminum barbed fittings and anodized aluminum body
- **Unaffected by changes in flow rate from 0.1 to 5.0 SCFH**
- **Mounting:** Wall mount
- **Dimensions:** 1.80"D x 2.00"L
- **Weight:** <1 lbs.



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