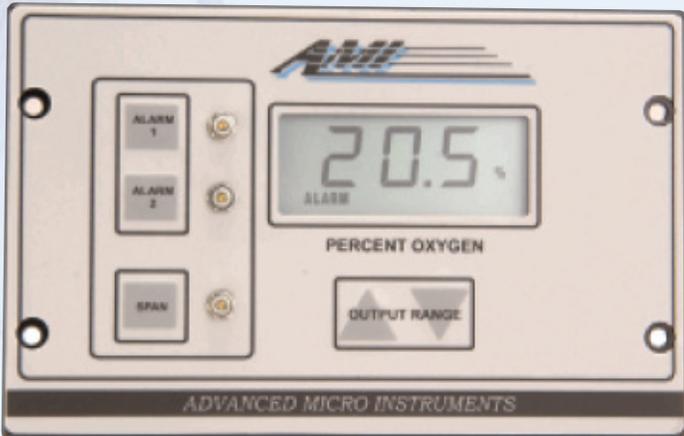




Advanced Micro Instruments, Inc.

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MODEL 70

The 10-year life sensor along with all its standard features makes for an excellent choice when measuring percent levels of oxygen.

The **AMI Model 70** provides a complete low cost solution when measuring percent levels of oxygen in the range of 0-95% for general-purpose applications.

This very compact, rugged analyzer combines state-of-the-art microprocessor based electronics with a simple, straightforward user interface.

The large 3½ digit display auto-ranges for maximum resolution, while one of the four standard user selectable output ranges remains fixed in your range of interest. Other standard features include two fully adjustable oxygen alarm settings, a system failure alarm, and dual outputs: 0-1VDC and isolated 4-20mA.

Standard output ranges include: 0-1%, 0-5%, 0-10% and 0-25%. Optional ranges available are: 0-50% and 0-95%.

This complete package employs a revolutionary long life zirconium oxide sensor that provides unmatched stability and accuracy even in rapid and extreme temperature swings from 0°F to +130°F. It requires no support or calibration gases (other than ambient air) for

its bi-annual calibration. The long life sensor lasts up to 10 years when used continuously for measurements in the range of 0-21% oxygen and 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.

The Model 70 responds rapidly to changes in oxygen levels (90% full scale < 12sec.) partially due to its unique sample system. It consists of a compact cellblock with precision-machined passages and critical orifice. This replaces the traditional approach of using several feet of tubing, compression fittings and a needle valve. Our design automatically controls flow rates with varying inlet pressures from 1 to 30psig. and is not flow sensitive in the range of 0.1 to 50 SCFH.

The Model 70 is truly a high performance, low cost solution panel mount analyzer for general-purpose applications.

MODEL 70 PERCENT OXYGEN ANALYZER

FEATURES

- 4 user selectable output ranges to choose from
- High resolution 3 ½ digit LCD
- 2 fully adjustable oxygen concentration alarms
- RFI protected
- 0-1VDC and isolated 4-20mA. analog output signals
- Power requirements: 10-28VDC <3 watts, supplied with a 115VAC to 12VDC adapter
- Low minimum detection limit
- Excellent repeatability and stability
- Advanced Cellblock Technology: Unique cellblock and critical orifice design eliminates the need for a flow control valve, internal tubing and compression fittings. Other benefits of this design include: compact size and faster response times
- Low original cost and virtually maintenance free over its entire life
- Requires no support or calibration gases, other than ambient air
- 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
- Panel mount
- Compact size
- 2 year warranty for analyzer and sensor, parts and labor

SPECIFICATIONS

- **4 user selectable output ranges to choose from:** 0-1%, 0-5%, 0-10% and 25%
Optional ranges: 0-50% or 0-95%. The user selection of an output range simultaneously controls the two alarms and the analog output so that all 3 functions operate on the same range
- **Digital display:** High resolution 3 ½ digit LCD. Reads full scale from 0.00% to 25.0% independently of output range selection
- **Alarms:** 2 fully adjustable oxygen concentration alarms. Dry contacts 3A. @24VDC/115VAC
- **Analog output signals:** 0-1VDC and isolated 4-20mA. Represents the output range selected: 0-1%, 0-5%, 0-10% and 25%
- **Power requirements:** 10-28VDC <3 watts
Supplied with a 115VAC to 12VDC adapter
- **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:** 1.0 to 30psig
- **Gas connections:** ¼" 316 S.S. compression fittings
- **Wetted parts:** 316 S.S. fittings and critical orifice, anodized aluminum cellblock
- **Unaffected by changes in flow rate from 0.1 to 5.0 SCFH**
- **Mounting:** panel mount
- **Dimensions:** 6.5"W x 4.2"H x 3.0"D
- **Weight:** 3 lbs.



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