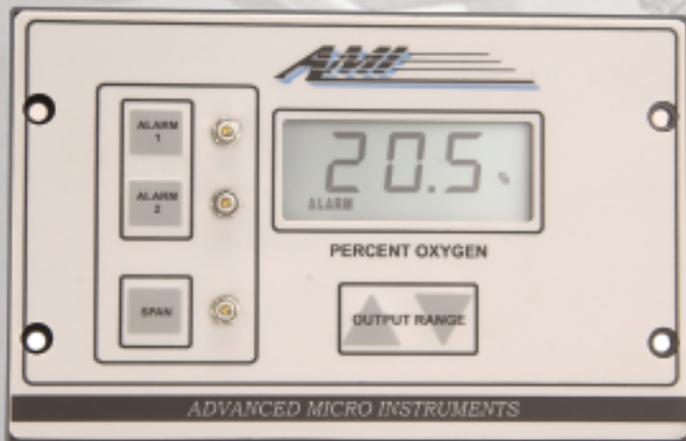




Advanced Micro Instruments, Inc.

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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 -4°F to +130°F. It requires no support or calibration gases (other than ambient air) for

its 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% FS.<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 30psi. and is not flow sensitive in the range of .1 to 10 SCFH.

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

MODEL 70 PERCENT OXYGEN ANALYZER

SPECIFICATIONS

- **Standard output ranges:**
0-1% | 0-5% | 0-10% | 0-25% | (0-95% optional)
- **Dual outputs:** 0-1VDC and isolated 4-20mA
- **Power requirements:** 10-28VDC, <3Watts
- **Minimum detection:** 0.05% of range or 500ppm
- **Repeatability:** 0.05% of range
- **Operating temperature:**
-4°F to 113°F (-20°C to 55°C)
- **Diurnal temperature specification:**
< 1% over temperature range
- **90% response:** < 12sec
- **Alarms:** 2 fully adjustable oxygen concentration alarms. Form C contacts. 110VAC/3A
- **Trouble alarm:** Form C contacts. 110VAC/3A.
- **Area Classification:** General purpose
- **Weight:** < 3Lb
- **Dimensions:** 4.20"H x 6.40"W x 3.00"D
- **Mounting:** Panel mount
- **Sample connections:** S.S. compression fittings

STANDARD FEATURES

- Large auto ranging 3½ digit LCD
- 4-User selectable output ranges to choose from:
0-1%, 0-5%, 0-10%, 0-25% (0-95% optional)
- Dual outputs: 0-1VDC, isolated 4-20mA
- RFI protected
- 10-year life zirconium oxide sensor
- Rugged compact design
- Unaffected by change in flow rate (.1 to 5 SCFH)
- 2 fully adjustable oxygen concentration alarms.
Form C contacts.
- Trouble relay. Form C contacts.
- Security function
- No calibration or support gases necessary
- 2 year warranty
- Unmatched stability over a extreme range of
temperature. -4°F to 113°F (-20°C to 55°C).
- Unaffected by continuous CO2 background gases

ADVANTAGES

- Long life sensor
- Low original cost and virtually maintenance free
over its entire life
- Requires no support or calibration gases
(other than ambient air)
- No annual sensor replacement or sensor shelf life issues
- Unaffected by changes in temperature from
-4°F to 131°F



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