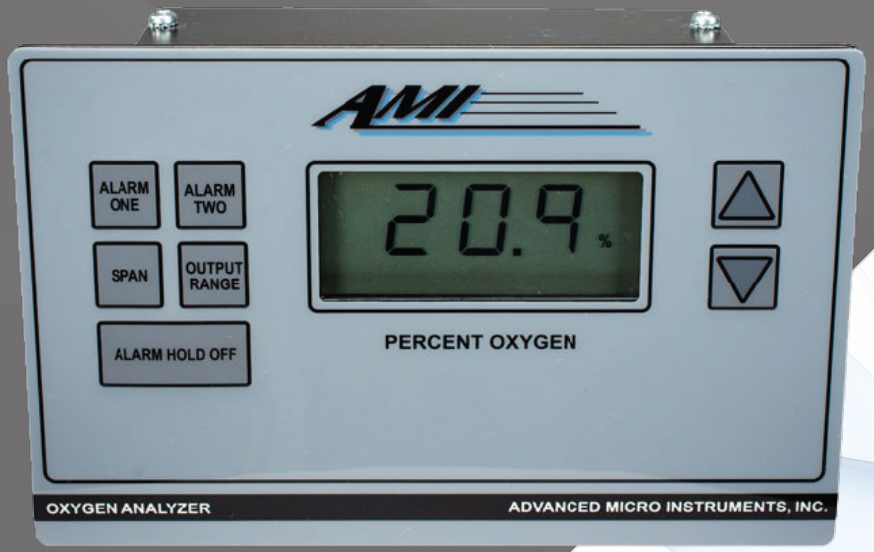


ADVANCED MICRO INSTRUMENTS
An ENPRO Company

MODEL 70

PERCENT OXYGEN

PERCENT OXYGEN MEASUREMENTS MADE RELIABLE AND EASY

The **MODEL 70** is the perfect Percent Oxygen Analyzer for accurately measuring in a NON- FLAMMABLE gas stream. It comes supplied in a compact, panel-mount package and is suitable for use in general purpose environments. This unit is offered at a compelling price point and provides exceptional oxygen monitoring performance.

ZIRCONIUM OXIDE SENSOR WITH UP TO 10-YEAR LIFE

The AMI zirconium oxide sensor is virtually maintenance-free lasting up to 10 years* with only routine calibration. It is extremely accurate and stable over a wide oxygen measurement and temperature range without being affected by changes in barometric pressure.

COMMON APPLICATIONS

- AEROSPACE
- INDUSTRIAL

FULL OF STANDARD FEATURES

The **MODEL 70** Percent Oxygen Panel Mount Analyzer comes standard with advanced features, including 4-user selectable analog output ranges, dual independent alarms, comprehensive alarm logic (fail safe or non-fail safe, latching or non-latching and independent alarm delays), alarm bypass, and 3 levels of security settings. Automatic data logging provides detailed time-stamped records of O_2 measurement, supply voltage and power brown-out history. All advanced features are accessed using AMI's COMMAND CENTER Software, available as a complimentary download through www.amio2.com.

EXCEPTIONAL VALUE

The **MODEL 70** can accurately measure percent levels of oxygen in either inert background gases or enriched oxygen gas streams up to 95% O_2. The unit is a compact Analyzer, fully loaded with advanced features, and offered at a compelling price point.

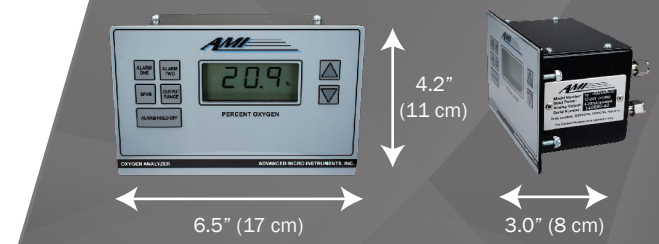
*(*sensor life dependent on target oxygen levels and selected measurement range)*

MODEL 70

PHYSICAL & ELECTRICAL SPECIFICATIONS

WEIGHT	GAS CONNECTIONS	WETTED PARTS
3 lbs (1.4 kg)	¼" 316 S.S. compression fittings	316 S.S. fittings, anodized aluminum cell block, acrylic flow meter & O-rings (Viton)

POWER
10 – 28 VDC <3W, supplied with a 100-240VAC to 12VDC adapter



Note: 2-year Warranty for Parts & Labor for any defects in materials or workmanship. 2-year Warranty for zirconium oxide sensors

OPERATIONAL SPECIFICATIONS

OUTPUT RANGES (USER SELECTABLE)		AMBIENT OPERATIONAL TEMPERATURE	FLOW RATE (RECOMMENDED)	INLET GAS PRESSURE	OPERATIONAL CONDITIONS
0 – 1% 0 – 5% 0 – 10% 0 – 25%	0 – 50% (optional) 0 – 95% (optional)	32°F to 122°F (0°C to 50°C)	0.1 TO 2.0 SCFH (0.05 - 0.9 Lpm)	1.0 - 30 psig (0.07 - 2.1 bar)	Pollution Degree 2 Installation Category II

ANALYZER PERFORMANCE SPECIFICATIONS

90% FULL SCALE RESPONSE TIMES FOR OUTPUT RANGES	ACCURACY	REPEATABILITY	DRIFT	HUMIDITY	APPROVALS
< 12 sec	0.5% of full scale	±0.1% of range or ±0.1% of oxygen, whichever is greater	±1.0% of full scale in 4 weeks at constant temperature	<85%, non-condensing	Designed to meet General Purpose Requirements

ANALYZER KEY FEATURES

SENSOR TECHNOLOGY	Zirconium Oxide Sensor with up to 10-year Life ▸ Life of sensor dependent on target oxygen levels and selected measurement range ▸ Sensor is not field-replaceable
ALARMS	2 fully adjustable concentration alarms with configurable Alarm logic and Relay Contacts, featuring: ▸ Alarm Bypass ▸ Alarm Delays ▸ Trigger Above or Below Setpoint ▸ Latching/Non-latching ▸ Failsafe/Non-failsafe ▸ Open or Close on Alarm
OUTPUTS	4 – 20mA (standard) 0 – 1VDC or 1 – 5VDC (optional - set through the COMMAND CENTER Software) Modbus bi-directional RS485 communication or USB
COMMAND CENTER	Complimentary, downloadable software available through www.amio2.com that works across AMI's Analyzers and gives users access to advanced functions: ▸ Calibration Details ▸ Data Logger with Adjustable Interval Setting ▸ Alarm Configurations

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