

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.

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 O₂ 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% O₂. The unit is a compact Analyzer, fully loaded with advanced features, and offered at a compelling price point.

COMMON APPLICATIONS

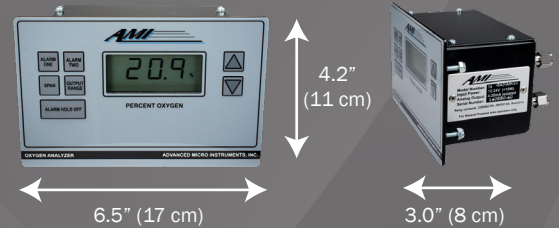
- ▶ AEROSPACE
- ▶ INDUSTRIAL

(*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 115VAC 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%	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 <ul style="list-style-type: none"> ▶ 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: <ul style="list-style-type: none"> ▶ 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: <ul style="list-style-type: none"> ▶ Calibration Details ▶ Data Logger with Adjustable Interval Setting ▶ Alarm Configurations

15501 Red Hill Avenue, Suite 100 Tustin, CA 92780 USA
www.amio2.com | Tel: 1.714.848.5533 | Email: sales@amio2.com

70 en 2026.01A, Copyright © Advanced Micro Instruments® 2025
 This data sheet is a general presentation. It does not provide a warranty or guarantee of any kind.
 Please contact us for a description of the warranties and guarantees offered with our products. Directions for
 use and safety will be given separately. All information herein is subject to change without notice.

