

OA-1/OA-1S+

OA-1 & OA-1S Oxygen Analyzers

The benchmark transportable oxygen analyzers for ultra-pure gas applications



- MICROPROCESSOR CONTROL
WITH USER FRIENDLY MENU PROMPTS
- BI-DIRECTIONAL RS-232 COMMUNICATION LINK
- ISOLATED OR NON-ISOLATED
4-20mA CURRENT OUTPUT
- ANALOG OUTPUTS
0-1VDC OR 0-10VDC
- LED & LCD DISPLAYS
- TWO ALARMS WITH INDEPENDENT RELAYS
MAY BE SET AND CONTROLLED BY THE OPERATOR

Operating Conditions	Ambient Temperature: 32° to 113°F (0°-45°C) Relative Humidity: 0-90% (non-condensing)	
Range	0.1PPM to 100% O ₂ . Analyzer auto-ranges between PPM and %. Indicator light on display specifies whether reading is PPM or %.	
Accuracy	±2% of RANGE	
Response Time	95% of step change in 5 seconds at 1 liter/min. sample flow rate. (within range)	
Recovery Time (from air to:)	100PPM	<20 seconds
	10PPM	<5 minutes
	1PPM	<15 minutes
Operations	10-60 PS16. Flow Rate: .5 to 1.5 liters/minute. 115/230 Vac ±20% 50/60 Hz. (via power selector switch)	
Warm-Up Time	Approximately 20 minutes.	
Dimensions	8.12" High x 9" Wide x 13.55" Long (206mm x 229mm x 244mm)	
Weight	10.5lbs (4.77kg)	



OA-1S+ Parts Per Billion Oxygen Analyzer

Operating Conditions	Ambient Temperature: 32° to 113°F (0°-45°C) Relative Humidity: 0-90% (Non-Condensing)	
Range	Auto-ranging. Indicator light specifies whether the reading is in PERCENT, PPM or PPB. Display resolution to 0.05 PPB.	
Accuracy	Analyzing ultra-pure inert gases with no significant reducing gas contamination (CO, H ₂ , Hydrocarbons). The OA-1S+ accuracy specification is 2% of Range or 10 PPB. (whichever is greater)	
Response Time	CHANGE RESPONSE: 95% of step change in 5 seconds at 1 liter/min. sample flow rate within PPM-% levels. 90% of step change in 30 seconds at PPB levels. RECOVERY TIME: From room air to .1% <20 seconds Low PPM levels <5 minutes Under 500 PPB <30 minutes	
Operations	Pressure= 10" to 60" PSI. Flow rate 0.5 to 1.5 LPM 115/230 Vac ±20% 50/60 Hz. (via power selector switch)	
Warm-Up Time	Approximately 20 minutes.	
Dimensions	8.12" High x 9" Wide x 13.55" Long (206mm x 229mm x 244mm)	
Weight	10.5lbs (4.77kg)	



- MULTI RANGE CAPABILITY
FROM PPB TO % OXYGEN CONCENTRATION
- LARGE LED DIGITAL DISPLAY
OF OXYGEN CONCENTRATION
- ALPHANUMERIC LCD
DISPLAYS MODE OF OPERATION
- MICROPROCESSOR CONTROL
WITH USER FRIENDLY MENU PROMPTS
- BI-DIRECTIONAL RS-232 COMMUNICATION LINK
- ANALOG OUTPUTS
4-20mA AND 0-1VDC
- TWO FORM C USER SETABLE ALARMS
- 316 S.S. ELECTROPOLISHED TUBING & FITTINGS
ORBITALLY WELDED SYSTEM WITH VCR CONNECTIONS

ML103 Rev. A
0702

TRON A DIVISION OF **NEUTRONICS INC.**
456 Creamery Way, Exton, PA 19341

Phone: 610.524.8800 • Fax: 610.524.8807 • Email: info@neutronicsinc.com

www.neutronicsinc.com

MODEL PURE N₂

Rapid Response ZrO₂ Sensor/ 1PPM-100% Range Oxygen Analyzer



Oxygen analysis doesn't have to be complicated or expensive

The model PURE N₂ offers a cost effective solution to rapid and precision measurement of oxygen.

- PORTABILITY WITH VERSATILITY**
 COMPACT AND LIGHTWEIGHT, RAPID WARM-UP TIME, SENSITIVITY TO LOW PPM LEVELS OF O₂ IN A VARIETY OF BACKGROUND GASES: NITROGEN, ARGON, HELIUM...
- HIGH PURITY PUMP**
 FOR SAMPLE EXTRACTION: HEAVY DUTY PUMP FEATURING 316 SS HEADS AND TEFLON™ DIAPHRAGM. IDEAL FOR APPLICATIONS WHERE THE PROCESS ENVIRONMENT CAN RANGE FROM ATMOSPHERIC PRESSURE TO VACUUM.
- SIMPLICITY**
 MICROPROCESSOR CONTROL WITH MENU PROMPTS, NO ELECTROLYTES TO REPLENISH OR FUEL CELLS TO REPLACE.
- THE BENCHMARK O₂ ANALYZER**
 FOR INERT GAS ANALYSIS
- FOR SOLDER REFLOW & HIGH PURITY WELDING**
 THE PURE N₂ IDEALLY SUITED FOR SOLDER REFLOW OVENS AND HIGH PURITY WELDING. AN OXYGEN ANALYZER, LIKE THE PURE N₂, IS THE ONLY WAY TO ACCURATELY MEASURE LOW CONCENTRATIONS OF OXYGEN IN PURGED TUBING AND PIPES IN HIGH PURITY WELDMENTS.

Sensor	Rapid response solid state zirconia cell	
Measurement Range	0.1PPM to 100% O ₂ . Analyzer auto-ranges between PPM and %. Indicator light on display specifies whether reading is PPM or %.	
Response Time	95% of step change in 5 seconds at 1 liter/min. sample flow rate. (within range)	
Intrinsic Error (accuracy)	±2% of RANGE	
Operations	Ambient Temperature: 32° to 113°F (0°-45°C) Relative Humidity: 0-90% (non-condensing) 115/230 Vac ±20% 50/60 (via power selector switch)	
Warm-Up Time	Approximately 20 minutes.	
Recovery Time	100PPM	<20 seconds
	10PPM	<5 minutes
	1PPM	<15 minutes
High Purity Pump	316 SS head w/ Teflon™ Diaphragm. Vacuum Capability: 12"Hg gage Flow: 2 LPM under normal process.	
Dimensions	13.3" High x 9" Wide x 14.75" Long. (338mm x 229mm x 375mm)	
Weight	17.8 lbs. (8.06kg)	
Standard Features	<ul style="list-style-type: none"> • Microprocessor control with menu prompts • LED and LCD displays • Bi-directional RS-232 communications link • Analog outputs 0-1VDC or 0-10VDC • 4-20mA current output • Two alarms with independent relays may be set and controlled by the operator • High Purity Pump with 316 SS head • Filter module kit • Transportable package 	



- FAST RESPONSE WITH HIGH RELIABILITY**
 STEP CHANGE IN 5 SECONDS, RAPID RECOVERY FROM AIR TO PPM LEVELS
- THE BENCHMARK O₂ ANALYZER**
 FOR INERT GAS ANALYSIS
- FEATURING THE NTRON EXCLUSIVE**
 "RAPID RESPONSE ZrO₂ OXYGEN SENSOR"
- IDEAL FOR SOLDER REFLOW, HIGH PURITY WELDING AND METAL HEAT TREATING**
- MEASURES FROM PERCENT LEVELS TO LOW PPM**
- PORTABLE, COMPACT & LIGHTWEIGHT**
- EXTREMELY FAST RESPONSE TIME**