



TELEDYNE
ANALYTICAL INSTRUMENTS
A Teledyne Technologies Company

Model 3110

Portable Oxygen Analyzer
Trace/Percent, Intrinsically Safe



Model 3110 Portable Oxygen Analyzer

GENERAL DESCRIPTION

The Model 3110 represents the new generation of portable trace and percent oxygen analysis capability.

The 3110 combines a rugged, portable analyzer design with the high reliability of Teledyne trace and percent level sensors. This ensures highly accurate ppm/percent oxygen readings in a variety of background gases -- including hydrocarbons. The batteries supply at least 100 hours of continuous power to the analyzer, with a low-battery indicator LED.

The analyzer includes quick-disconnect fittings to take measurements without hassle and can be equipped with an external sample system. The microprocessor-based electronics provide accurate, high resolution readings and easy-to-use features.



Built for Reliability and Performance
Model 3110 comes standard with a heavy plastic carrying case with foam interior.

APPLICATIONS

- Air separation and liquefaction
- Pure gaseous hydrocarbon stream monitoring
- Semiconductor manufacturing
- Protective atmosphere blanketing of primary liquid feedstocks and flammable liquids
- Process analysis of gaseous monomers – vinyl chloride, propylene, butadiene, isoprene, or ethylene
- Gas purity certification
- Glove box or pipeline leak detection
- Natural gas treatment and transmission
- Catalyst protection
- Inert gas welding of exotic metals
- Wave and reflow soldering
- Heat treating and bright annealing
- Nuclear fuel processing and isotope separation
- Analysis of chemical reactions
- Headspace gas analysis
- Crystal growth
- Plastics manufacturing

FEATURES AND BENEFITS

- Intrinsically safe, FM/FMC or ATEX approved.
- Digital meter readout
- 0-1 VDC output, data logging capabilities
- Ideal for measuring O₂ in natural gas and a variety of other background gases
- Long-life, maintenance-free, Micro-fuel Cell oxygen sensor
- Universal AC charger

OPTIONS

- Real-time data-logging capabilities with digital output that can be downloaded directly to a PC
- Stainless steel quick disconnect gas fittings
- Sample system consisting of coalescing filter, needle valve, flow meter, fittings and tubing suitable for trace/percent O₂ analysis
- Insta-trace for fast recovery after installation
- NG option: H₂S and sulfur resistant sensor

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SPECIFICATIONS

Ranges:	3110: 0-10 ppm to 0-25% 3110XL: 0-2 ppm to 0-25% 3110P: 0-1% to 0-25%
Response	Trace ranges (with B-2C sensor): < 60 seconds or less Percent ranges (with B-1 sensor): < 7 seconds
Operating	32 to 104°F (0 to 40°C)
Reproducibilit	±1% at constant temperature
Sensor	Micro-fuel Cell
System	NiCad batteries, AC adapter included for battery charging 110/220 VAC 50/60 Hz, 0.25A
Weight	6 lbs. (2.71 kg)
Approva	Factory Mutual (FM/FMc), intrinsically safe, Class I Div 1 Groups A-D T6 ATEX, intrinsically safe, Ex ia IIC T3 CE marked
Battery	Ni-Cad, >100 hours per charge, 5-year expected



Model 3110 is available with an optional sample system consisting of coalescing filter, SS needle valve, flow meter, flexible tubing and fittings

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