AM507 Online Oxygen Analyzer

MADE IN USA

Online PPM & Percent Oxygen Analyzer Fully Configurable

Inline Flow Through Configuration

KF-40 (NW40F) Direct Fit Configuration

Precision Fuel Cell Oxygen Sensor Technology

Measure Oxygen from 0.1 ppm to 100%

Intuitive User Friendly Interface

Cost Effective and Low Maintenance

Optional Electronic Configurations:

2-wire loop powered 4-20mA Analyzer

3-wire Analyzer, isolated 4-20mA

6-wire Analyzer, 4-20mA & 0-10VDC Output

Intrinsically Safe Option for Class 1, Div 2 Areas

"Smart" Analyzer with Bi-Directional RS485 MODBUS

Applications:

- Inert Glove Box Systems & 3D Printers
- Laboratories & Universities
- Reflow Soldering
- And Many Other Industrial Process Applications

Specifications:

Accuracy :	< +/- 1% of Full Scale Range*
Analysis Range:	0-10/100/1000/10000ppm/25% 0 - 1/5/10/25/100%
Calibration:	Periodically
Dimensions:	6.3 x 3.5 x 2.5 inch
Enclosure:	Anodized Aluminum
Flow Sensitivity:	0.5 - S SCFH (Flow Through) ** No Flow Required for KF-40
Gas Connections:	Configurable
Output Options:	4-20mA, 0-10VDC, RS485 Modbus
Power:	12 - 24 V DC
Pressure:	0.1 - 50 PSIG
Sensor:	Please choose suitable type
Temperature:	0-50 deg C
Temperature Compensation:	Integral
Warranty:	12 months
Weight:	1.75 lbs

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AM507 Oxygen Analyzer

Product Specifications

Oxygen Analyzer:

The model AM507 oxygen analyzer combines a rugged in-line design with precision oxygen sensors. The result is a highly reliable and cost-effective compact design with easy-to-use user interface.

The analyzer comes in 4 different packages for maximum installation considerations. These include 2-wire Loop, 3-wire with an isolated 4-20 mA output, 6-wire, 6-wire with RS485 Bi-Directional Modbus ASCII, and an intrinsically safe option without requiring a Zener barrier.

The analyzer can be configured for 2 ranges, trace (parts-per-million) or percent.

The display of the analyzer with its large font is set to auto-range, this allows the user to read O2 throughout all ranges. The output can be range selected through the on-board menu allowing easy interface with a PLC, DCS or other control system.

Gas connections are made with compression tube fittings or a direct fit KF-40 Housing.

Power Requirements:

Input Power:	12 - 24 V DC
Current Draw:	25 mA

Oxygen Sensor Technology:

The oxygen sensor used in the AM507 is based on the galvanic electrochemical fuel cell principal. All oxygen sensors are manufactured in house under a strict quality program.

The standard cells are unaffected by other background gases such as H2, He or Hydrocarbons. The acidic cells work well when acid gases such as CO2 or Natural Gas are present.

The sensors are self-contained and minimal maintenance is required - no need to clean electrodes or add electrolyte.

The precision oxygen sensors offer excellent performance, accuracy & stability with superior expected life.

Oxygen Sensors Types:

16T303 PPM Oxygen Sensor: Trace Analysis, Standard
16T304 PPM Oxygen Sensor: Trace Analysis, Acidic
16P308 Percent Oxygen Sensor: Percent Analysis, Standard
16P309 Percent Oxygen Sensor: Percent Analysis, Acidic
16T305 Hybrid Oxygen Sensor: Percent or Trace Analysis

Oxygen sensors should be periodically calibrated. Factory recommendation is every 2 - 3 months or as the application dictates. Sensors offer excellent linearity with an air calibration, or calibrate to a certified span gas to maximize accuracy.

Order Information:

Model Number:
AM507 Oxygen Analyzer

Selected Range & Sensor:

1	Trace Analysis Standard (16T303):	0 - 10ppm, 0 - 100ppm, 0 - 1000ppm, 0 - 10000ppm, 0 - 25%
2	Trace Analysis Acidic (16T304):	0 - 10ppm, 0 - 100ppm, 0 - 1000ppm, 0 - 10000ppm, 0 - 25%
3	Percent Analysis Standard (16P308):	0 - 1%, 0 - 5%, 0 - 10%, 0 - 25%, 0 - 100%
4	Percent Analysis Acidic (16P309):	0 - 1%, 0 - 5%, 0 - 10%, 0 - 25%, 0 - 100%
5	Hybrid Analysis (16T305):	0 - 1000 ppm, 0 - 10000 ppm, 0 - 25%

Electronics Package:

2	Wire Loop Powered 4 to 20mA Analyzer, 12 - 24VDC Input
3	Wire, Isolated 4-20 mA Analyzer, 12-24VDC Input
6	6-Wire Analyzer, 12 - 24VDC Input, 4 - 20mA and 0 - 10VDC Output
M	6-Wire Analyzer, 12 - 24VDC Input, 4 - 20mA and 0 - 10VDC Output, MODBUS RS485 ASCII
IS	Intrinsically Safe, 12 - 24VDC Input, 4 - 20 mA and 0 - 10 VDC Outputs (MTL-7706 Barrier)

Gas Connections:

8	1/8" Compression Tube Fittings
4	1/4" Compression Tube Fittings
6	6mm Compression Tube Fittings
KF	(NW40F) Fitting

AM507 - _____ - _____ - _____ Use This Part Number When Ordering

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