

OEM 100 O2 Panel Mounted Oxygen Analyzer



Compact, accurate, reliable, for safety critical applications in the workplace

DESCRIPTION

The MSA OEM 100 O2, powered by Neutronics Technology, is a panel mounted analyzer that accurately measures oxygen in the range of 0 to 20% and 0 to 25%. Designed for continuous operation, this analyzer measures and displays the level of oxygen in a workplace area and provides audible and visual alarms if the level exceeds predetermined setpoints.

Features

0 to 20% and 0 to 25% O2 dual measurement range

Two adjustable alarm setpoints with relays

Alarm horn with silence switch

Large 1/2" high LED display

Electrochemical sensor unaffected by background gases



The electrochemical sensor ensures reliable performance and fast response for safety critical measurements. The sensor is a small fuel cell that measures oxygen directly. It is easily replaceable and unaffected by most background gases. The analyzer is provided with a flow through sensor base so that the sensor can be remote mounted in the sample flow at a distance of up to 1,000 feet from the analyzer. As the sample gas from the area passes across the O2 sensor, the sensor produces a small current proportional to the amount of O2 in the sample stream. The current is amplified, filtered, and electronically conditioned by the analyzer circuit board. The resulting signal is then shown on the LED display and compared with the two adjustable alarms.

The OEM 100 O2 analyzer features two alarms that are fully adjustable over the entire operating range of 0 to 25%. Each alarm has a dedicated relay that is de-energized in alarm condition with both normally open and normally closed contacts. Alarm LED status indication is provided for each alarm on the front panel. Both alarms activate a piezoelectric horn. The “set alarms” switch and potentiometers are used to adjust the setpoints. A 90 dB alarm horn is mounted on the front panel. The “horn silence” switch will disable the horn. The alarm horn will stay disabled as long as it remains in the silence position. The low power/switch open (LPSO) alarm detects a power supply problem and the status of an external switch or relay. The LPSO red LED will illuminate if the supplied power drops below 6.5 VDC or if an external switch or relay wired to the main terminal block is in the open state.

A 0 to 2.5V signal corresponding to 0 to 25% oxygen is available. Loop powered current output
The OEM 100 O2 analyzer is available with loop powered 4-20mA current output calibrated to 0 to 25% oxygen. Ensuring safe and reliable operation of the analyzer requires periodic calibration and sensor replacement. The sensor has an expected service life of 9 to 12 months. The sensor will need to be replaced when the monitor cannot be adjusted to match the span gas during calibration or if the current output is < 0.97mA in air.

The OEM 100 O2 analyzer should be calibrated every month. The calibration procedure requires the use of a span gas with a known level of oxygen. The zero and span potentiometers located on the front panel are used to adjust the display to match the correct gas concentrations.



MORE INFORMATION:

Scan the QR code to learn more about the OEM 100 O2 Panel Mounted Oxygen Analyzer and other MSA products.

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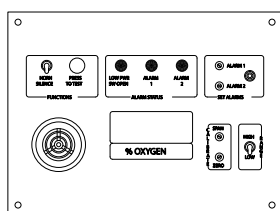


Description	Part Number
Model OEM 100 analyzer	7-06-1000-08-0
Model OEM 100 analyzer (4-20mA output)	7-06-1000-10-0
Replacement 0 to 25% sensor with O-ring	8-01-1000-02-2
Replacement 20" long sensor interface cable	6-02-1001-31-0
Potentiometer adjustment tool	2-03-1000-00-0
90 dB horn	1-15-3002-00-0

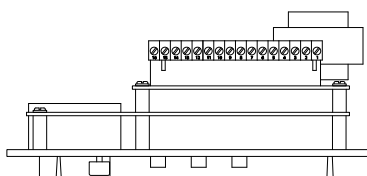
Specifications	Description
Type	Panel mount oxygen analyzer
Operating range	0 to 20% and 0 to 25% O2
Resolution	0.1% O2
Sensor type	Electrochemical
Expected sensor service life	9 to 12 months at standard temperature and pressure
Accuracy	±1% full scale
Response time	T95 < 20 seconds per step change
Temperature range	41° to 104° F (5° to 40° C)
Relative humidity	15 to 90% continuous, non-condensing
Sample flow rate	100 to 1,000 ccm
Warm up time	5 seconds
Alarms	(2) oxygen activated, ascending or descending; (1) switch activated

Specifications	Description
Relays	(2) oxygen relays, Form C
Outputs	0 to 2.5 VDC; 4-20mA non-isolated available (external 12 - 30 VDC supply required)
Display	Red LED, 0.5" high, 3 1/2 digit
Power supply	115/230 VAC ±20%, 50/60 Hz @ 50mA or 9 -15 VDC @ 400mA
Area classification	Non-hazardous
Analyzer warranty	12 months from date of shipment
Sensor warranty	6 months from date of shipment
Dimensions	6.75" (171mm) length x 5.00" (127mm) width x 3.81" (97mm) height
Weight	1.5 lbs. (0.68 kg)

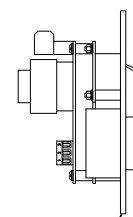
Specifications are subject to change without notice.



Front view



Top view



Side view

Note: This Bulletin contains only a general description of the products shown. While product uses and performance capabilities are generally described, the products shall not, under any circumstances, be used by untrained or unqualified individuals. The products shall not be used until the product instructions/user manual, which contains detailed information concerning the proper use and care of the products, including any warnings or cautions, have been thoroughly read and understood. Specifications are subject to change without prior notice. MSA is a registered trademark of MSA Technology, LLC in the US, Europe, and other Countries. For all other trademarks visit <https://us.msasafety.com/Trademarks>.

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