

580 SERIES OXYGEN DEFICIENCY MONITOR



The 580 Series Oxygen Deficiency Monitor is a compact system that is ideal for the continuous monitoring of oxygen levels in any area where inert gases or confined space may produce a hazardous reduction in the oxygen content of the air. The oxygen deficiency monitor ensures that gases such as nitrogen, helium, and argon are safely stored and used and any leaks are detected before safety is jeopardized. This system is suitable for a wide range of uses and should be installed in gas storage and use areas, cryogenic freezer rooms, laboratory or industrial locations where liquefied or compressed gases may accumulate and pose a hazard of asphyxiation as required by OSHA 29 CFR 1910. The unique long lasting zirconium sensor provides accurate and stable response to changes in oxygen concentration over a wide range of temperature and humidity conditions and does not drift due to weather or temperature.



Typical Applications

- Laboratory or Industrial Gas Storage and Use Areas
- Laboratories with Incubators
- Control Rate Freezers
- Environmental Chambers
- Cryogenic Research

Features

Non-depleting Long Life Sensor Cell provides 10+ years of operation under normal conditions

Self-checking Features ensure continuous and reliable operation

Non-latching, Built-in Alarm resets automatically when oxygen levels return to above the alarm threshold

Two User-adjustable Alarm Setpoints permit flexible system integration

No Calibration Sensor requires no scheduled maintenance (periodic span adjustment as needed)

Smart Electronics monitors sensor operation continuously and alerts user to sensor faults

Remote Digital Alarm Indicator (optional) mirrors the oxygen deficiency monitor's display providing remote system

Materials and Specifications

Sampling Method: Diffusion

Gas Detected: Oxygen

Range: 0-25%

Accuracy: $\pm 1\%$ of full scale

Operating Temperature: -40°F to 140°F (-40°C to 60°C)

Display: 3/4" LCD digital display, back lit

Sensor Type: Zirconium oxide sensor cell

Power Requirement: 24 VDC (250mA)

Relay Outputs: Two user-settable alarm relays and one fault relay rated 2A @ 24VAC

Alarm: Built-in 90 dB horn and LED indicators

Enclosure: Polycarbonate resin (flame retardant and UV stabilized); NEMA 2

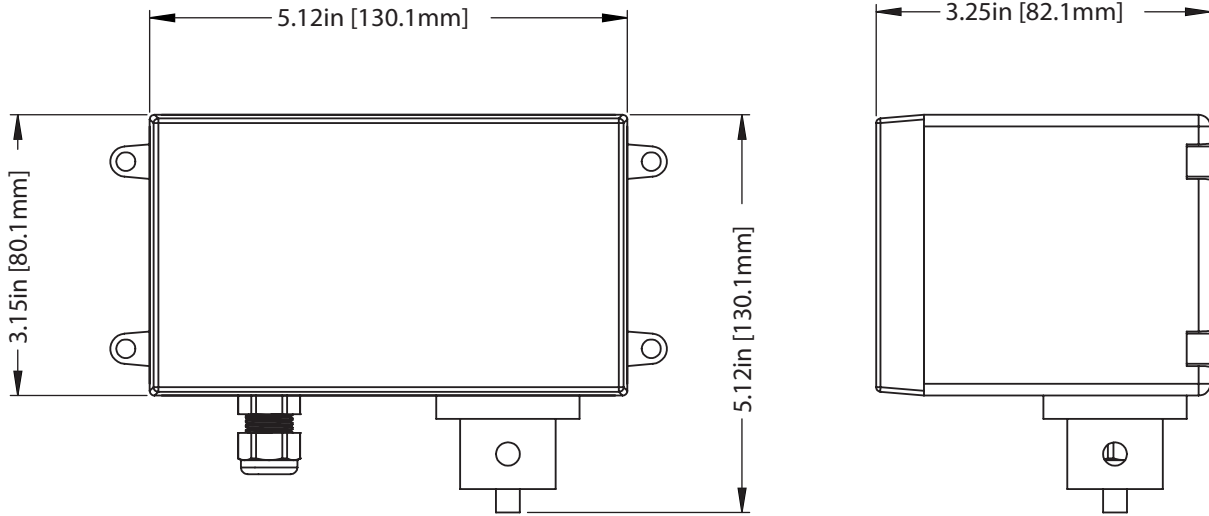
Weight: 1.1 lbs. (0.5 kg)

Conformances: CE, UL/cUL

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Installation Dimensions



Ordering Information

Part No.	Description	Housing	Weight
580 3004	Oxygen Deficiency Monitor with 110VAC/24 VDC Power Supply	Polycarbonate	1.1 lbs (0.5 kg)

Related Options

Part No.	Description	Housing	Weight
580 3005	Remote Display Alarm Indicator for Oxygen Deficiency Monitor 5803004	PC/ASA Plastic	0.5 lbs (0.23 kg)
580 3006	Horn and Strobe, Red, 82-100 dB @ 10 ft (92-110 dB @ 1 m)	ABS Plastic	0.8 lbs (0.45 kg)
580 3006-A	Horn and Strobe, Amber, 82-100 dB @ 10 ft (92-110 dB @ 1 m)	ABS Plastic	0.8 lbs (0.45 kg)
580 3006-B	Horn and Strobe, Blue, 82-100 dB @ 10 ft (92-110 dB @ 1 m)	ABS Plastic	0.8 lbs (0.45 kg)