



**GREER
SYSTEMS**

Electrochemical Oxygen Sensor

AS-200-O

Description:

This AS-200 oxygen depletion detector is an economical method to sense the oxygen level in percent (%) based on standard air makeup. This unit provides a 4 - 20 mA output based on 25 - 0 % oxygen in the sampled atmosphere. Low power draw, this unit may be utilized as a stand alone control when equipped with the optional contact closure board for controlling exhaust and ventilation supply fans, supplying alarms, etc. This unit may also be supplied with an LCD display for display of percent of oxygen in the space.



Features:

- Low Power requirements 12-24 vac @ 0.2 amps
- Long life cell, up to 8 years expected at 21% oxygen
- No bias or warm up time, instant on device
- Stable, linear output, good reaction under a wide range of oxygen concentrations and humidity.
- Non corrosive NEMA 4X enclosure
- Small size 5" x 5" x 3"
- Operating range 41-104°F
- Virtually immune to contaminating gasses such as:
CO², CO, NO_x, SO², H²

Applications:

The AS-200-O will provide the user with a means to comply with the ASHRAE requirements for O² monitoring and has applications for the food industry, refrigeration and greenhouses.

Simple Analog type design, no microprocessor, robust and long life, all GSA products are handmade in the U.S.A. by professionals, meeting industry standards, Oxygen Depletion Detectors are tested for several days at 500 feet above sea level before shipping.

All GSA Gas Detectors are calibrated to the range advertised, you will be required to adjust the device to match your atmospheric pressure when installed and operating.

Model

AS-200-0 Base Model
-O-D with Digital LCD Display
-O-CC With Dual Relay Board for control of fans, alarms, etc.
-O-D-CC With Dual Relay Board and Digital Display

Specifications:

Sensor Element:

Type: Galvanic cell

Range: 0-100% of O²

Life: 8 years expected @ 21% oxygen

Operating: 41°- 104°F

Storage: -4°F - 140°F

Response: 30 sec 10-25% O²

AS-200-O:

Case: Polycarbonate (UV Stable) or Low Temp Polystyrene

Size: 5" x 5" x 3"

Weight: 1 pound

Access: 6 ½" conduit KO

Output: 2-20mA (0-25% O²) Linear

Max Loop 500Ω @ 12 vac - 1,000Ω @ 24 vac

Power 12-24 vac @ 0.2 amp

Options:

-CC Two form "C" at 5 amp at 115 vac
Alarm Adj. Factory set at 19.5 % User adjustable 10-90 % O²

-O-D Display Factory set at 0.00 to 25 % User adjustable 10-90% O²
Power: 12.24 vac @ 0.25 amp

When used as designed, the AS200 will provide many years of service, even under extreme conditions, popular in military and scientific applications.