



SPECIALTY SENSORS

OXYGEN SENSOR

MODEL OS-1

DESCRIPTION

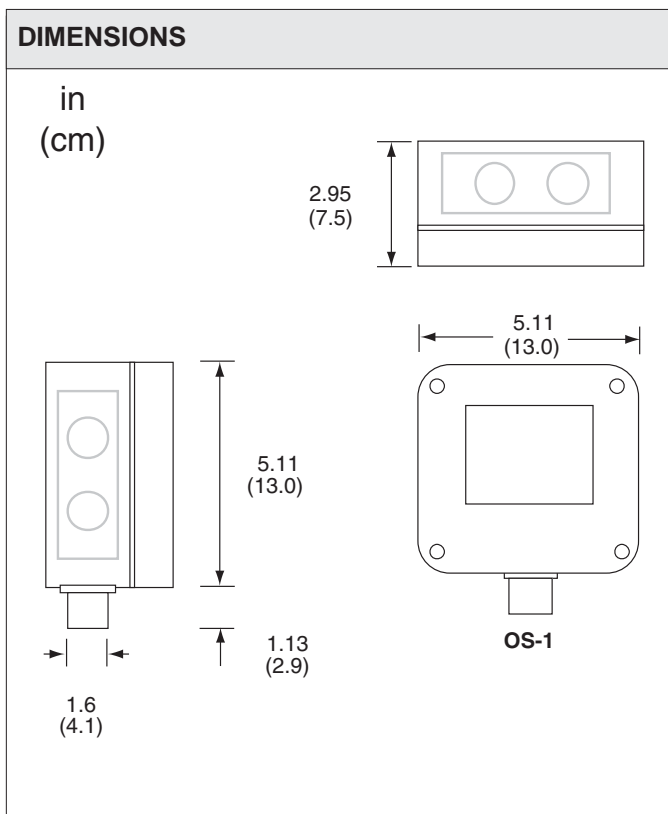
The **Model OS-1** is a dependable, economical oxygen sensor designed to monitor oxygen levels in ambient air. It has a jumper-selectable analog output for interfacing with a BAS controller and an SPDT relay output to activate an alarm in the event of oxygen depletion due to a refrigerant leak. The units are powered by 24 VAC/VDC and are housed in a rugged polystyrene enclosure for dust and moisture protection.

FEATURES

- **4-20 mA, 0-5 VDC, or 0-10 VDC output, jumper selectable**
- **SPDT alarm relay**
- **24 VAC/VDC power**
- **0% to 25% range**
- **Rugged polystyrene enclosure**



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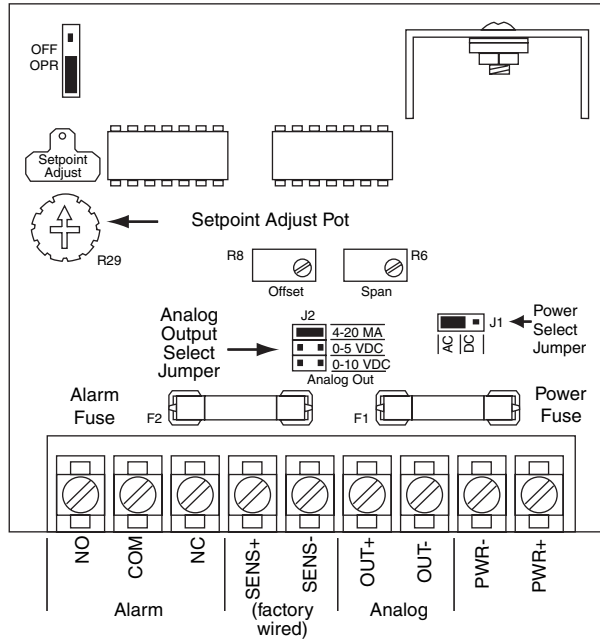
SPECIFICATIONS	
Power	24 VAC/VDC @ 0.25A
Analog output (jumper selectable)	4-20 mA (300Ω max) 0-5 VDC (20 kΩ min) 0-10 VDC (20 kΩ min) 0% to 25% oxygen
Relay output	SPDT 24 VAC/VDC @ 0.5A, factory set @ 19.5%
Response time	Approx 12 sec
Element type	Galvanic cell
Element life	Approx five years @ 20°C in ambient air
Accuracy	±1%
Operating temp	40° to 104°F (5° to 40°C)
Operating humidity	10% to 95% noncondensing
Storage temp	-4° to 140°F (-20° to 60°C)
Weight	1 lb (0.45 kg)



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WIRING



Note: AC power must be floating and may not be grounded. If AC power is grounded a separate transformer is required for each **OS-1**.

INSTALLATION

The **OS-1** is suitable for indoor use only. Mount the unit as close to the source of potential refrigerant leaks as possible. Some recommended considerations are as follows:

1. Mount the unit with the sensor pointing down.
2. Mount the unit in a location with low vibration. Strong vibration may cause a change in the condition of the internal membrane.
3. The sensor should be mounted 3' to 5' (0.9 to 1.5m) from the floor in equipment rooms or 1' (0.3m) above the floor in refrigeration pits.
4. The **OS-1** should cover about 1000-1500 square feet with adequate air movement.
5. Mount at least 5' (1.5m) from the exhaust fan.
6. Verify operation yearly.

Note: Make all connections in accordance with national and local codes.

CAUTION: Not to be used as a life safety device.

ORDERING INFORMATION

MODEL	DESCRIPTION
OS-1	Oxygen Sensor, 0% to 25% Range

RELATED PRODUCTS	
LPI-1C	Black LCD display
LPI-1CR	Red digital display