

Oxygen Deficiency Safety Monitor

for Low Temperatures



RAD-0002-ZR

About

The **RAD-0002-ZR Oxygen Deficiency Safety Monitor** is designed to detect extremely low concentrations of oxygen in enclosed spaces and to warn occupants of low oxygen levels. This device can also monitor either O2 depletion or O2 enrichment, as hazardous concentrations of oxygen (O2) in confined spaces are dangerous, and may lead to health problems ranging from headaches and fatigue to asphyxiation and even fatality.

This monitor has both audible and visual alarms, which will alert individuals should hazardous concentrations be present. Detection of low levels of O2 will also activate relays that can be used for a fan or air-handling system to ventilate the confined space and improve O2 concentration in the area.

Features

- Large digital LCD display
- Separate SEU (Main Sensor) and RDU (Remote Display)
- 3 Relay outputs to control ventilation devices
- 4-20mA Outputs - O2: 0~25%, Temp: -50°C
- Audible and visual indications at 3 alarm levels
- Ability to add strobes for additional indication
- Automatic barometric pressure compensation

Applications

- Cryogenics
- Commercial Freezers
- Laboratories
- Process Cooling
- Food Production

Accessories

- **CM-1027** | Dual Strobe Add On Kit
- **CM-0126-5,6** | Strobe Tower Add On Kit



Fun Fact!

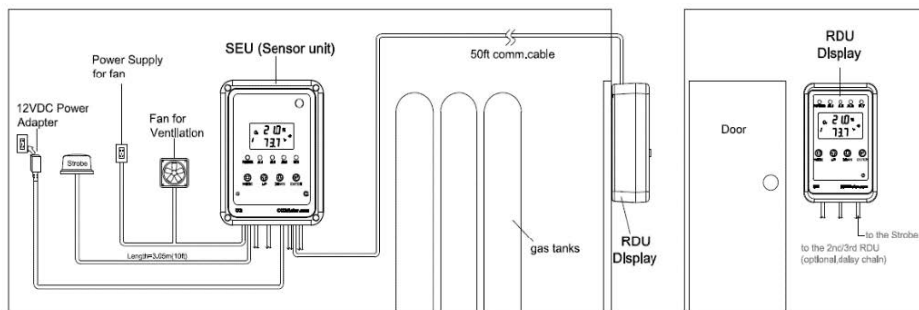
You should always mount the bracket and the Oxygen Deficiency Safety Monitor for Low Temperature **60-72 in.** from floor height - at eye level to detect the inert gas.

Specifications

Range	0 - 25% display
Display Resolution	0.1%
Accuracy	Better than 2%FS
Response Time	O2: <2min by 90%
O2 Depletion AL1	18.0%, 18.5%, 19.0%, 19.5%, 20%. <i>The default AL1 is 19.0%</i>
O2 Depletion AL2	16.0%, 16.5%, 17.0%, 17.5%. <i>The default AL2 is 17.0%</i>
O2 Depletion AL3	<i>The AL3 Depletion of O2 is 12%</i>
O2 Enrichment AL1	22.0%, 22.5%, 23.0%, 23.5%. <i>The default AL1 is 22.0%</i>
O2 Enrichment AL2	24.0%, 24.5%, 25.0%. <i>The default AL2 is 24.0%</i>
O2 Enrichment AL3	<i>The AL3 Enrichment O2 is 25%</i>
Operating Temperature	-50°F to -58°F (-45°C to -50°C)

Electrical and Mechanical Specifications

Power Supply	<i>Output: 12VDC, 2000mA.</i>
Power Input	100~240 VAC, 50/60Hz, 0.6A
Power Consumption	6VDC (5.4V~7.0V), recommended capacity is 12AH
Relays	Peak current for each relay < 2A @ 30VDC or 250VAC & Relay configuration: SPDT
4-20mA Outputs	CL01:420mA O2: 0~25% CL02:420mA Temp: 32 to 122° F (0-50°C)
Mounting Height	60-72 inches from floor height



Typical Installation



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environmental research & monitoring equipment

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