

# Remote Oxygen Enrichment Safety Alarm

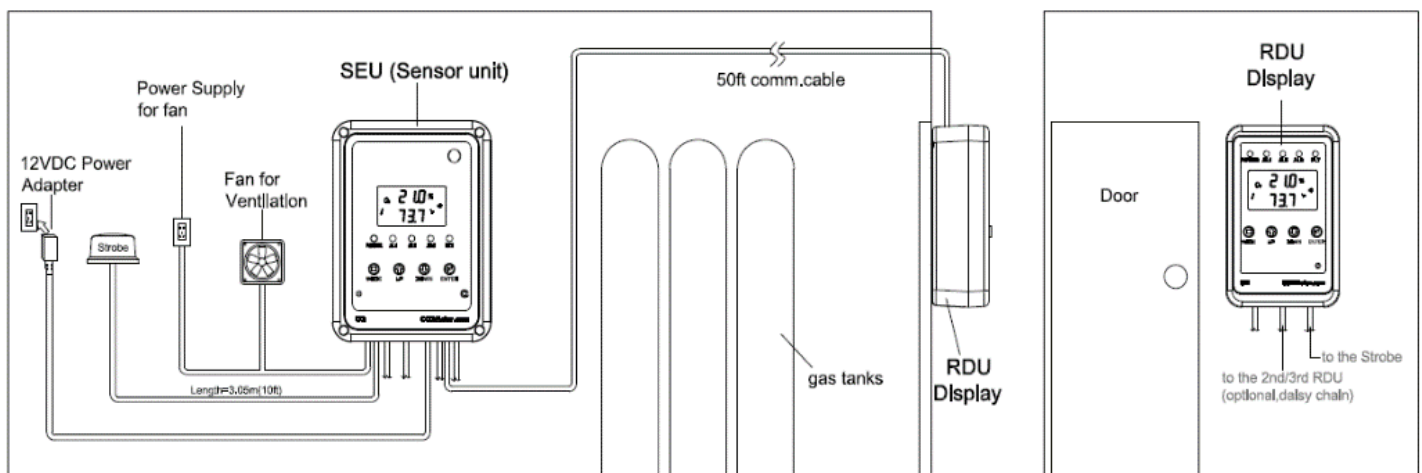
## *Detect high oxygen levels in enclosed spaces.*

The RAD-0012 Remote Oxygen Enrichment Alarm is designed to detect high oxygen levels in enclosed spaces and to warn occupants if high oxygen levels exist. High concentrations of oxygen (O<sub>2</sub>) in confined spaces are dangerous, and may lead to increased fire hazards.

This monitor has both audible and visual alarms which activate when the O<sub>2</sub> concentration is higher than the pre-set alarm levels. Detection of high levels of O<sub>2</sub> will also activate relays that can be used for a fan or air-handling system to ventilate the confined space.



- Separate SEU (Main Sensor Unit) and RDU (Remote Display Unit) allow you to see warning before entering an enclosed area. Up to 3 RDUs can be daisy chained.
- Large digital LCD display clearly indicates the ambient O<sub>2</sub> concentration.
- 3 Relay outputs to control ventilation devices.
- Audible and visual alarm indications at three separate alarm levels. Ability to add strobes for additional indication.
- Automatic barometric pressure compensation for high altitude use.



## Specifications

### ■ Oxygen & Temperature Sensor Specifications:

<b>Oxygen Sensor Specifications</b>	
Range	0 - 25% display
Display Resolution	0.1%
Accuracy	Better than 2%FS
Pressure Dependence	Auto pressure compensation, built in barometer. (500-1200 mbar)
Response Time	O2: <2min by 90%
Alarm 1	21%, 21.5%, 22%, 22.5%, 23%, 23.5%, 24%, 24.5% and 25%. The default AL1 is 23.0%.
Alarm 2	21%, 21.5%, 22%, 22.5%, 23%, 23.5%, 24%, 24.5% and 25%. The default AL2 is 24.0%
Alarm 3	21%, 21.5%, 22%, 22.5%, 23%, 23.5%, 24%, 24.5% and 25%. The default AL3 is 25.0%.
Sound Alarm	80db@10cm
Warm-Up Time	< 60 seconds at 72°F (22°C)
<b>Temperature Sensor Specifications:</b>	
Temperature Range	32°F to 122°F (0°C to 50°C)
Display Resolution	0.1°F (0.1°C)
Display Options	°F /°C
Accuracy	±2.7°F (±1.5°C) when O2 concentration is below first alarm level
Response Time	20-30 minutes (case must equalize with environment)
<b>Operating Conditions:</b>	
Operating Temperature	32°F to 122°F (0°C to 50°C)
Humidity Range	0 ~ 95% RH non-condensing
<b>Storage Conditions:</b>	
Storage Temperature	-4°F to 140°F (-20°C to 60 °C)

### ■ Power Supply

Power Supply	DC	9~32VDC (12~32VDC recommended), 2A.
	AC adapter	Input: 100~240 VAC,50/60Hz, 0.6A Output: 12VDC, 2000mA.
Battery	Voltage	6VDC (5.4V~7.0V), recommended capacity is 12AH

### ■ Relay Outputs

Relays 1-3	Peak current for each relay < 2A @ 30VDC or 250VAC Relay configuration: SPDT
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### ■ Weight and Dimensions

SEU	Weight	1 lb.
	Dimensions (LxWxD)	6.69 x 4.96 x 2.73 inches
RDU	Weight	0.4 lb.
	Dimensions (LxWxD)	5.51 x 3.54 x 1.89 inches