

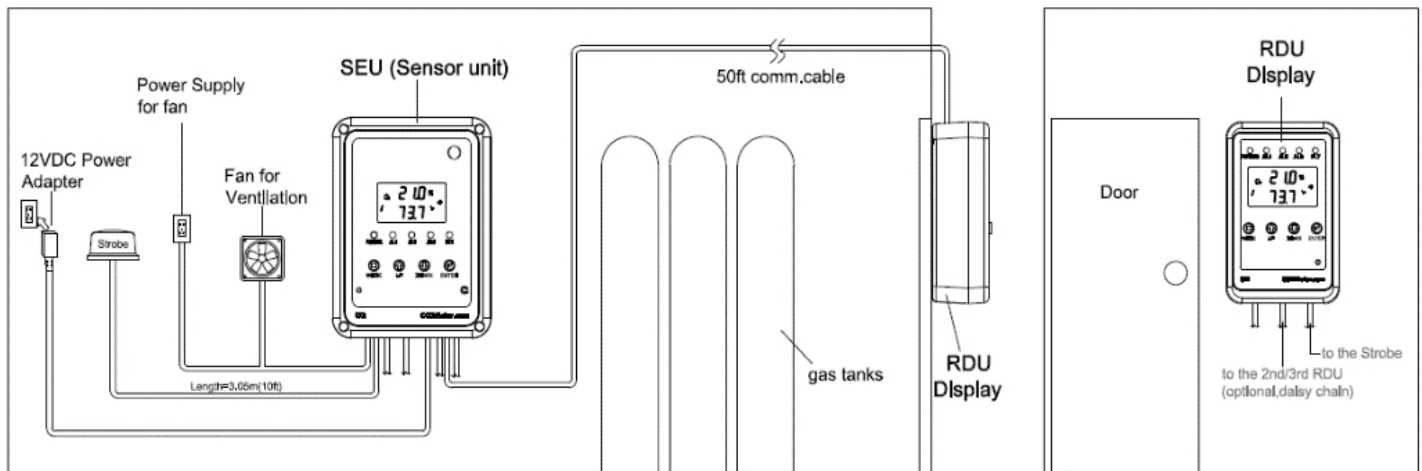
# Remote Oxygen Storage Safety Alarm

## *Detect Oxygen Depletion in Enclosed Spaces – Warn Occupants of Low Oxygen Levels*

The RAD-0002 Remote Oxygen Storage Safety Alarm is designed to detect oxygen depletion in enclosed spaces and to warn occupants of low oxygen levels. Low concentrations of oxygen (O<sub>2</sub>) in confined spaces are dangerous, and may lead to health problems ranging from headaches and fatigue to asphyxiation and death. This monitor has both audible and visual alarms which activate when the O<sub>2</sub> concentration is lower than the pre-set alarm levels. Detection of low 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 and improve O<sub>2</sub> concentration in the area.



- 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%
O2 AL1	18.0%, 18.5%, 19.0%, 19.5%, 20.0%. The default AL1 is 19.0%.
O2 AL2	16.0%, 16.5%, 17.0%, 17.5%. The default AL2 is 17.0%
O2 AL3	15.5%, 15.0%, 14.5%, 14.0%, 13.5%, 13.0%. The default AL3 is 15.0%.
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