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ODEM-Multi Oxygen Monitor for Multiple Rooms

Key Features

- **Oxygen monitoring in up to 4 rooms**
- **Central touchscreen displays real-time levels in all rooms**
- **Audible and visual alarm indications if any room is unsafe**
- **Push-to-silence feature on audible alarm**
- **10+ year zirconium oxygen sensors utilized**
- **Wall-mounted Central Display Unit**
- **Alarm relay output for connecting to remote alarm panels**



Description

EMS Healthcare LLC has developed the **ODEM-Multi** specifically for detecting oxygen gas concentrations in multiple separate rooms where oxygen gas is available and may present a human safety or fire safety risk, like operating rooms within a local clinic.

The **ODEM-Multi** performs continuous oxygen deficiency and enrichment monitoring in multiple rooms using a highly accurate, calibrated oxygen sensor located in each room to provide real-time oxygen concentrations on a centrally located display unit. The central display unit includes both audible and visual indicators if the oxygen level in any room is outside OSHA specified limits and a push-to-silence feature for the audible alarm. In addition to the local alarm indicators, the central display unit also includes a relay output for connecting the local alarm signal to a remote alarm panel if the facility requires it.

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Specifications

Model Number		**ODEM-Multi**
Description		Oxygen monitoring in multiple locations for deficiency (<19.5%) and enrichment (>23.5%) levels. If either level is exceeded in any room being monitored, a visual/audible alarm is triggered on the central display unit.
Performance	**Response Time**	Within 1 second of any change in oxygen levels
	Accuracy	± 0.5% of FS
	Repeatability	± 1% of reading
	Operating Temp	-22° to 122°F (-30° to +50°C)
	Humidity	0 – 98% RH, non-condensing
Oxygen Monitoring	**Range**	0 – 95% oxygen concentration
	Sensor Gas Interface	Remote sensor with 1/2" opening for ambient air diffusion
	Sensor Electrical Interface	M8 4-pole connector with keyway (10m connectorized cable included with each remote sensor)
Alarm	**Local Alarm**	Red light on front panel and 80dB audible continuous buzzer when oxygen levels are outside safe limits (audible buzzer can be silenced). Indicators are self-clearing when oxygen levels return to within limits.
	Push-to-Silence Button	Touching a finger to the lens of the alarm lamp on the front panel will silence the audible indicator
	Relay Output	2-wire dry contact, normally open relay commanded closed during normal operation (opens on alarm below 19.5% or above 23.5% O2 or loss of power). Can be connected to Facility Alarm Panel or Building Automation System.
Electrical	**Voltage Source**	110-120 VAC, 60 Hz (internal power supply includes short circuit/overload/over-voltage protection)
	Power (max)	19 Watts including 4 remote sensors
Physical (Control/ Display Unit)	**Dimensions**	6" (W) x 9" (H) x 5" (D)
	Weight	20 pounds including 4 remote sensors and 10m cabling to each
	Enclosure Type	NEMA 4X rated, polycarbonate, indoor/outdoor use

Protections: Short circuit / Overload / Over-voltage

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