

Oxygen Depletion Monitors for Manifold Rooms

SPECIFICATION

Oxygen Depletion Monitor

The oxygen depletion monitor is an easily installed, mains powered monitoring device. Constructed in two parts, the monitoring unit is mounted in the manifold room, and the repeater alarm is mounted outside the room to provide warning prior to entering.

The oxygen depletion monitor provides a warning alarm at 19.5% oxygen and a danger alarm at 18% oxygen. A continuous flashing indicator assures the user the monitor is active and normal.

The monitor provides for connection of up to three repeaters if the enclosure has multiple entrances. Two non-latching relays are included, set in a failsafe configuration.

Calibration should be performed when first installed and then at no greater than 18 month intervals.

Typical Applications

- Manifold Rooms containing gases other than Oxygen and/or Air but not including CO₂ or mixtures with CO₂.
- Cryogenic and cylinder storage of gases not including CO₂ or mixtures with CO₂.
- MRI Rooms (note that the monitor may not be suitable in the MRI room itself - consult with MRI supplier).

Technical Specification

- O₂ Range: 0.1% to 25%
- Sensor accuracy: O₂ +/- 0.3% +/-2%FS
- Expected sensor life: 10 years
- Measurement techniques: Electrochemical cell
- Warranty: Sensor - 2 years, Electronics - 2 years
- Response time: 60 Seconds
- Alarms: Two alarm set points at 19.5% and 18% will initiate LED's and sound on unit and at remote.
- Relays: Two alarm relays, contacts are non-latching fail-safe.
- Power supply: 230V AC, 110V AC or 24V DC
- Dimensions main sensor unit: 175mm wide, 110mm high and 75mm deep
- Housing: IP65 rated ABS enclosure

O2 Depletion Monitor	
Part Number	Type
<input type="checkbox"/> 4107 2125 07	10-yr Oxygen with 2 relays

Note: All units are 110 vAC.

Carbon Dioxide and Oxygen Depletion Monitor

(Because Carbon Dioxide has specific respiratory effects in addition to oxygen depletion, a carbon dioxide accumulation monitor is required by OSHA when carbon dioxide is present and may be the cause of or contribute to oxygen depletion.)

The Combination monitor is an easily installed, mains powered monitoring device. It is constructed in two parts: the main monitoring unit, which is mounted in the manifold room, and a repeater alarm which is mounted outside the room to provide warning prior to entering.

The Combination monitor provides a CO₂ alarm at 0.5 and 1.5% and an O₂ alarm at 19.5%. A continuous flashing indicator assures the user the monitor is active and normal.

The monitor provides facility for connection of up to three repeaters if the enclosure has multiple entrances. A single non-latching relay is included, set in a failsafe configuration.

Calibration should be performed annually but can be performed by simple pushbutton.

Typical Applications

- Manifold Rooms containing gases other than Oxygen and/or Air, including CO₂ or mixtures with CO₂.
- Cryogenic and cylinder storage of gases including CO₂ or mixtures with CO₂.
- Anaerobic cabinet rooms

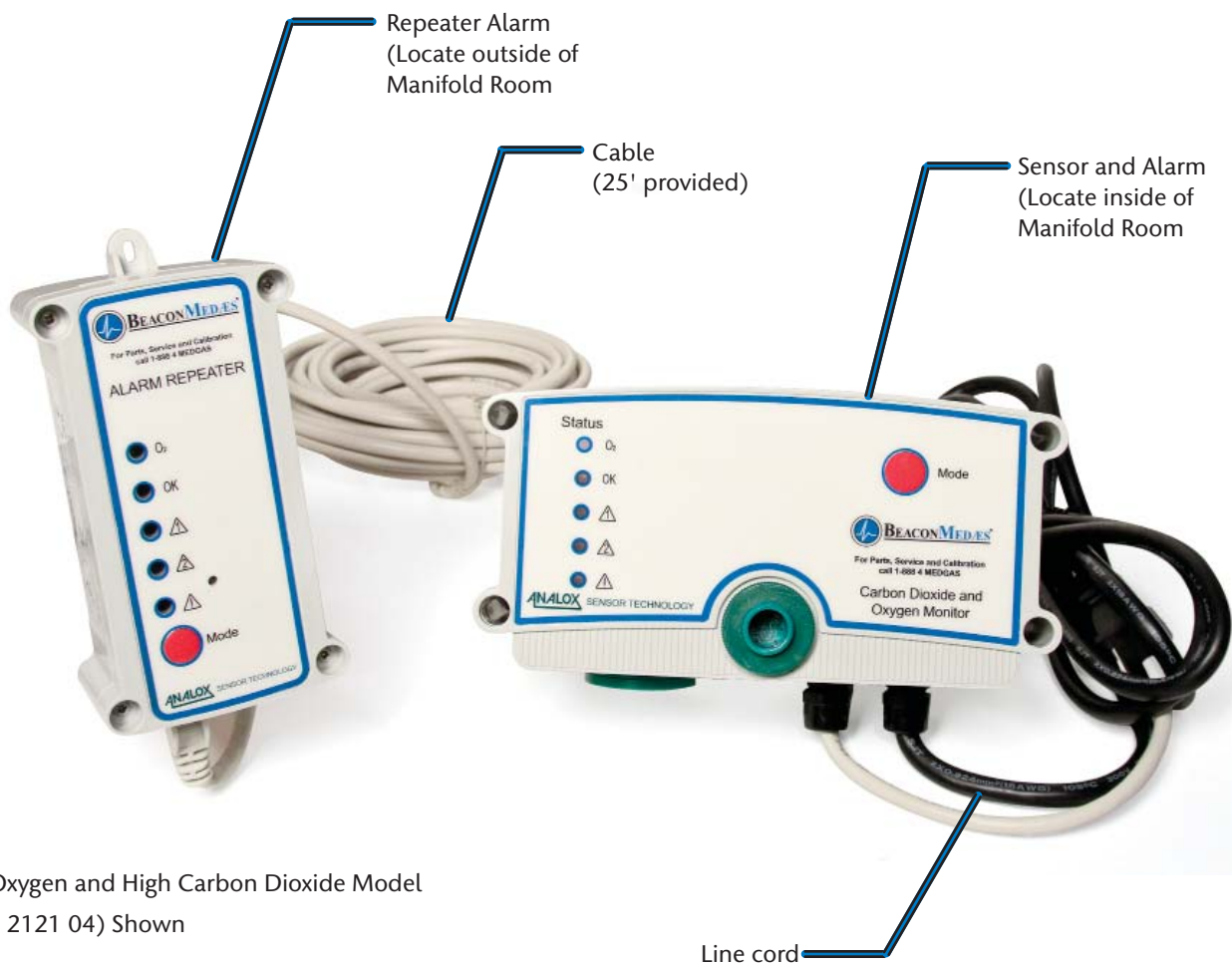
Technical Specification

- Range: 0.1 to 25% O₂ and 0.1 to 5% CO₂
- Sensor life: CO₂ 15 years; O₂ 2 years
- Sensor Type CO₂: Infra Red Detector
- Sensor Type O₂: Galvanic Electrochemical Cell
- Warranty: CO₂ sensor 15 years; Electronics 2 years; O₂ Sensor 1 year
- Response time: 15 Seconds O₂, <45 seconds T90 CO₂
- Alarms: Two alarm setpoints at 0.5 and 1.5% CO₂, 19.5% O₂ (other alarm setpoints available on request) will initiate LED's and sounder on unit and at remote.
- Power supply: 230vAC, 110vAC or 24vDC
- Dimensions (main sensor unit): 175mm wide, 110mm High and 75mm deep
- Housing: IP65 rated ABS enclosure

CO2/O2 Combination Depletion Monitors	
Part Number	Type
<input type="checkbox"/> 4107 2121 04	Carbon Dioxide and Oxygen with (1) relay (relay set for alarming CO ₂ level)

Note: All units are 110 vAC.

Components



Low Oxygen and High Carbon Dioxide Model
(4107 2121 04) Shown