

Oxygen Depletion Monitors for Manifold Rooms (O2NE+)

SPECIFICATION

O2NE+ Oxygen Depletion Monitor

The O2NE+ 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.



O2NE+ Monitoring Unit and Repeater Alarm

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).

Service

The sensor is long life and full calibration is only recommended once the unit is initially installed and following a cell replacement. A proof test/alarm check should be carried out every 12 months.

Technical Specification

- O₂ Range: 0.1% to 25%
- Sensor accuracy: better than +/-0.75% O₂ over 5.0 to 25.0% O₂
- Response time: <60 seconds
- Operating temperature: 0 to 40° C (+32° to +104° F)
- Expected sensor life: up to 7 years in air
- Measurement techniques: Electrochemical cell
- 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: 110V AC
- Dimensions Main Sensor Unit: 175mm wide, 105mm high, and 75mm deep
- Dimensions Alarm Repeater: 72mm wide, 155mm high, and 75mm deep
- Housing: IP65 rated ABS enclosure
- Display: 4 digit LCD
- Alarm sounder: min 75dBA

O2NE+ Oxygen Depletion Monitor	
Part Number	Type
4107 2125 07	O2NE+ Oxygen Depletion Monitor with two relays (includes monitor and alarm repeater)
1316 0053 00	Additional O2NE+ Quick Connect Repeater
2205 6046 05	Spare O2 Sensor

O2NE+ Calibration & Testing Components	
Part Number	Type
1316 0035 19	Flow Adaptor for O2NE+
2205 6035 19	Regulator (0.5LPM) with tubing for 17L
1316 0041 54	Calibration Gas for O2NE+ monitors, 20.9% oxygen (17 liter)
2205 6046 06	Test Gas for O2NE+ monitors, 17% oxygen (17 liter)

Notes:

1. Flow Adaptor - required to connect calibration gas/test gas to O2NE+ sensor.
2. Brass regulator for 17L gas bottle controls gas flow from calibration gas/test gas.
3. Flow adaptor and brass regulator are reusable for future calibrations/tests, not required for purchase at each calibration or test.