

RAM 50 Series

Respiratory air monitors



- Meets OSHA requirements for Grade D breathing air
- Continuous monitoring of supplied breathing air
- Carbon monoxide and organic vapor detection
- Simple calibration and maintenance
- Three-stage filtering option for up to 8 users

Continuously Monitoring Your Breathing Air

Designed to meet OSHA requirements for the monitoring of Grade D respirable air from oil lubricated compressors, this versatile instrument, with years of proven performance, can be used for a wide range of applications. Equipped with a MOS broad range sensor, the monitor not only responds and alarms to excessive carbon monoxide which enters the airline system, but also to hydrocarbon contamination and other oxidizable toxic gases. A durable corrosion resistant and tamper proof case, rugged electronics, automatic purge, stable calibration, and continuous sample flow indication are all combined to ensure trouble free operation. The RAM 50 is available in two models, the 1540 or 1541 (with built in horn). Both may be purchased with or without an airline filter system.

Respiratory air specifications

All GfG Instrumentation RAM Instruments satisfy the requirements of OSHA rule 29 CFR 1910.134 (d) (2) (ii) for carbon monoxide monitoring. They will also monitor Grade E air, generally specified for breathing air in cylinders (SCBA).

OSHA Regulations (Standard - 29 CFR) Respiratory Protection - 1910.134

(i) (6)

For compressors that are not oil-lubricated, the employer shall ensure that carbon monoxide levels in the breathing air do not exceed 10 ppm.

(i) (7)

For oil-lubricated compressors, the employer shall use a high-temperature or carbon monoxide alarm, or both, to monitor carbon monoxide levels. If only high-temperature alarms are used, the air supply shall be monitored at intervals sufficient to prevent carbon monoxide in the breathing air from exceeding 10 ppm.



Wall mounted filter panel option

8025 (25 CFM), 8050 (50 CFM), and 8100 (100 CFM)

The 25, 50, or 100 CFM panels filter out dangerous toxins from supplied air sources and ensure clean, breathable air. The three-stage filter system efficiently removes particulates, oil vapors, and hydrocarbons from an air supply. After filtration, the regulator sets the pressure for the respiratory equipment and the manifold assembly provides multiple outlets for airline hose quick connections. The model 8025 panel includes two user female quick connect outlets; the 8050 includes four, and the 8100 includes eight. A 1/2" FPT connection is standard on all 50 and 100 CFM panels, and a 3/8" FPT connection is standard on all 25 CFM panels.

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Technical Data

Gases

Carbon monoxide
Hydrocarbons

Detection range

CO (O) 2 to 50 ppm

Detection principle (sensor)

MOS broadrange

Display

Analog

Expected sensor life

3 to 5 years

Adjustable alarm point

CO - factory set at 10 ppm

Alarms

Visual Large red LED
Audible Case mounted horn (model 1541)
Relay Dry contact

Airline input

1/8" feed Standard pressure 70 to 150 psi
1/2" FPT 50 to 100 CFM panels (wall mount)
3/8" FPT 25 CFM panels (wall mount)

Available relay contacts and ratings

1 alarm
2 fault
2 A @ 110 V AC

Sample flow rate

0.5 cubic feet of air per hour (scfh)

Power source

110 V AC or 12 V DC

Temperature range

32 to 105 °F (0 to 40 °C)

Dimensions (monitor only)

6.5x10.75x5 inches (165x274x128 mm) (WxHxD)

Available monitor models

1540 without case mounted horn
1541 with case mounted horn

Available filter panel options

8025 wall mounted 25 CFM panel (2 ports)
8050 wall mounted 50 CFM panel (4 ports)
8100 wall mounted 100 CFM panel (8 ports)

Specifications subject to change without notification

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