

DATA SHEET



BM25 - Transportable Area Monitor 1-5 Gases

Capable of monitoring from one to five gases through diffusion or sample draw, the BM25 packs the benefits of a fixed-system area monitor into an easily transportable, yet rugged instrument.

When the BM25 detects a hazardous level of oxygen, toxic or combustible gas, the top-mounted beacon sends a flashing, bright signal in all directions while emitting a powerful, 103 dB siren alarm.

The BM25 can be used as a stand-alone monitor or wired so that alarm signals transfer from one unit to another. This setup can create a safety perimeter around a detected atmospheric hazard, or transmit a manually initiated emergency signal over a wide area.

The BM25 comes standard with a high capacity nickelmetal-hydride battery pack offering up to 170 hours of continuous runtime. Long-term area monitoring is possible in hazardous locations with an intrinsically safe trickle charge power supply.

Specifications:

Case Material: Impact resistant polycarbonate

Dimensions: 470 mm x 180 mm x 190 mm (16.7" x 7.1" x 7.5")

Sensors: Combustible Gas – Catalytic Diffusion; Oxygen and Toxic Gases – Electrochemical; CO₂ – Infrared; Isobutylene – PID

Weight: 6.8 kg (15 lbs)

Display: Graphic liquid crystal display w/backlight

Datalogging Capacity: 700 hours w/5 gases

Measuring ranges:

Combustible Gases: 0-100% LEL in 1% increments

Oxygen: 0-30% of volume in 0.1% increments

Carbon Monoxide: 0-1,000 ppm in 1 ppm increments

Hydrogen Sulfide: 0-100 ppm in 1 ppm increments

Hydrogen: 0-2,000 ppm in 1 ppm increments

Sulfur Dioxide: 0-30 ppm in 0.1 ppm increments

Chlorine: 0-10 ppm in 0.1 ppm increments

Nitrogen Dioxide: 0-30 ppm in 0.1 ppm increments

Nitric Oxide: 0-300 ppm in 1 ppm increments

Hydrogen Chloride: 0-30 ppm in 0.1 ppm increments

Hydrogen Cyanide: 0-10 ppm in 0.1 ppm increments

Ammonia: 0-1,000 ppm in 1 ppm increments

Phosphine: 0-1 ppm in 0.01 ppm increments

Arsine: 0-1 ppm in 0.01 ppm increments

Silane: 0-50 ppm in 0.1 ppm increments

Ethylene Oxide: 0-30 ppm in 0.1 ppm increments

Carbon Dioxide: 0-5% of volume in 0.1% increments

Isobutylene: 0-2,000 ppm in 1 ppm increments

Audible Alarm: 103 dB @ 1 meter

Visual Alarm: Ultrabright LED beacon visible 360 degrees

Operating Temperature Range: -20°C to 50°C (-4°F to 122°F) typical

Operating Humidity Range: 15%-95% non-condensing (continuous)

Power Source (Run Time): NiMH (170 hours, typical)

Recharge Time: 4.5 hours, typical

Certifications: Atex – II 1 G EEx ia IIC T4, I M1 EEx ia I

CSA – Class I, Groups A,B,C,D T4; Ex ia d IIC T4;

C22.2 No. 152 (excluding aspirated and PID sensor configurations)