

# BM25 MULTIGUARD

## Transportable Multi-Gas Area Monitor



### “Plug and Play” Sensors Available:

**O<sub>2</sub>, CO, H<sub>2</sub>S, SO<sub>2</sub>, NH<sub>3</sub>, NO,  
NO<sub>2</sub>, HCN, HCl, Cl<sub>2</sub>, ETO, PH<sub>3</sub>,  
AsH<sub>3</sub>, SiH<sub>4</sub>, CO<sub>2</sub>, H<sub>2</sub>, %LEL**

- 1 to 5 gases
- Interchangeable “smart” sensors
- Run-time greater than 100 hours
- Dry contact alarm and fault outputs
- Intrinsically safe charging in hazardous locations
- Standard data logging
- ATEX certified
- Ultra-bright flashing beacon
- Powerful audible alarm (103 dB @ 1m)
- Manual panic alarm
- Wired Interconnection with other BM25 units

The BM25 Multiguard packs the benefits of a fixed-system area monitor into an easily transportable, yet rugged system. Designed for team protection or area surveillance, the unit is most suitable for rescue teams, rig monitoring, mobile or short-term work, and areas where fixed detection systems are not present.

There are 17 interchangeable “smart” sensor options available for the BM25, making the system easily adaptable to a variety of applications and industries. When the BM25 detects a hazardous level of oxygen, toxic or combustible gas, the top-mounted visual alarm sends a bright signal in all directions while emitting a powerful, 103 dB siren alarm.

Capable of monitoring up to five gases simultaneously, the BM25 can be used as a stand-alone monitor or wired so that alarm signals transfer from one unit to another. This can create a safety perimeter around a detected atmospheric threat, or transmit a manually initiated emergency signal over a wide area.

The BM25 comes standard with a NiMH battery pack offering 100 hours of continuous run time. Long-term area monitoring is possible with a trickle charge from an intrinsically safe power supply. Also standard are STEL, TWA and nearly four months of datalogging capacity for a five gas sensor configuration.

**Case Material:**

Impact resistant polycarbonate

**Dimensions:**

425 mm x 160 mm x 130 mm (16.7" x 6.3" x 5.1")

**Sensors:**

Combustible gas – Catalytic Diffusion  
Oxygen and Toxic gases – Electrochemical  
CO<sub>2</sub> – Infrared

**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

**Weight:**

6.8 kg (15 lbs)

**Display:**

Graphic liquid crystal display w/backlight

**Datalogging Capacity:**

700 hours w/5 gases

**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) typical

**Power Source/Run time:**

Nickel-Metal Hydride/100 hours typical

**Recharge Time:**

4.5 hours typical

**Certifications:**

IECEX/ATEX EEx ia IIC T4  
II 1G II 2G I M1 I M2



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