

# BM25 MULTIGUARD

## Transportable Multi-Gas Area Monitor



### “Plug and Play” Sensors Available:

**O<sub>2</sub>, CO, H<sub>2</sub>S, %LEL, SO<sub>2</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>, NH<sub>3</sub>,**

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

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

Designed for team protection or area surveillance, the unit is most suitable for perimeter monitoring, rig overhauls, and mobile or short-term work in areas where fixed detection systems are not suitable.

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

# BM25 MULTIGUARD

## SPECIFICATIONS

**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:**

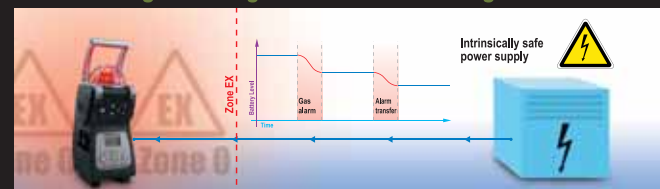
Nickel-Metal Hydride/100 hours typical

**Recharge Time:**

4.5 hours typical

**Certifications:**

IECEX/ATEX EEx ia d IIC T4

**Stand alone****Alarm transfer and safety perimeter****With a manual call point****Trickle charge for long term area monitoring**

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