

# Transportable Multi-Gas Area Monitor

Gas Monitoring Solutions

## BM25



- Longer lifetime with the XP IR sensor
- Intrinsically safe detector
- Powerful audible alarm (103 dB @ 1m)
- Ultra-bright flashing signal (viewable at 360°)
- Run time of up to 170 hours
- More than 4-month datalogging capacity
- Easily transportable - less than 7 kilos

The BM25 packs the benefits of a fixed system area monitor into a rugged, user-friendly and transportable instrument. It was designed to detect one to five gases for mobile or temporary work applications, team protection, area surveillance or places where fixed detection systems are not suitable.

Powered by a NiMH battery pack, the BM25 offers up to 170 hours of continuous run time. Other standard features include STEL and TWA values, as well as a datalogging capacity of more than four months.

Multiple units can be grouped using optional alarm transfer kits. This protects larger areas by transferring alarms from one BM25 to the next. An intrinsically safe trickle charger is also available for long-term area monitoring in classified zones.

The BM25 is durable and versatile. It is suitable for a wide range of industries including refineries and pharmaceutical production. Applications include turnaround work sites, rig overhauls and fence-line surveillance.

### “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>, PID, XP IR



**INSTRUMENT WARRANTY:**

Two-year warranty, excluding consumables (sensors, filters, etc.)

**CASE MATERIAL:**

Impact resistant polycarbonate

**DIMENSIONS:**

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

**SENSORS:**

Combustible Gas – Catalytic Diffusion  
 Methane, Propane, Butane, Isobutane, LPG, Ethanol, Pentane – Infrared  
 Oxygen and Toxic Gases – Electrochemical  
 CO<sub>2</sub> – Infrared  
 Isobutylene – PID

**WEIGHT:**

6.8 kg (15 lbs)

**DISPLAY:**

Graphic liquid crystal display with backlight

**DATALOGGING CAPACITY:**

700 hours with 5 gases

**MEASURING RANGES:**

Combustible Gases:	0-100% LEL in 1% increments
Methane:	0-100% LEL in 1% increments – Infrared
Methane:	0-100% of volume in 1% increments – Infrared
Propane:	0-100% LEL in 1% increments – Infrared
Butane:	0-100% LEL in 1% increments – Infrared
Isobutane:	0-100% LEL in 1% increments – Infrared
LPG:	0-100% LEL in 1% increments – Infrared
Ethanol:	0-100% LEL in 1% increments – Infrared
Pentane:	0-100% LEL in 1% increments – Infrared
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

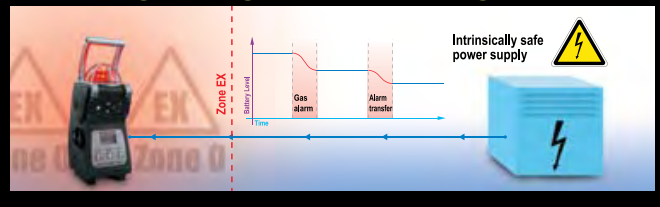
**OPERATING TEMPERATURE RANGE:**

-20°C to 50°C (-4°F to 122°F) typical

**Stand alone**


- Ultrabright flashing beacon
- Powerful audible alarm (103 dB @ 1m)
- Run-time greater than 100 hours

**Alarm transfer and safety perimeter**

**Trickle charge for long term area monitoring**

**OPERATING HUMIDITY RANGE:**

15%-95% non-condensing (continuous) typical

**POWER SOURCE (RUN TIME):**

NiMH (170 hours maximum operating time, 100 hours typical)

**RECHARGE TIME:**

4.5 hours, typical

**CERTIFICATIONS:**

- ATEX : II 1 G / EEx ia IIC T4; I M1 / EEx ia I  
 or (when used with IR flameproof sensor)  
 II 2 G / EEx ia d IIC T4; I M2 / EEx ia d I
- IECEX : Ex ia IIC T4 / Ex ia I (BM25 without IR sensor)  
 Ex ia d IIC T4 / Ex ia I (BM25A without IR sensor)  
 or (when used with IR flameproof sensor)  
 Ex ia d IIC T4 / Ex ia d I (BM25 and BM25A)
- CSA: Class I, Groups A,B,C,D T4; Ex ia d IIC T4;  
 C22.2 No. 152 (excluding aspirated, XP IR and PID sensor configurations)
- INMETRO: BR-Ex iad I/IIC T4 (excluding XP IR and PID sensor configurations)



Ex-Ox-Tox Gasdetectie  
 Westerdreef 5V  
 2152 CS Nieuw-Vennep  
 Telefoon: 0252 620885  
 E-mail: info@exotox.nl  
 Website: www.exotox.nl

