

# Transportable Multi-Gas Area Monitor

Gas Monitoring Solutions



## BM25

**The BM25 packs the benefits of a fixed system area monitor into a rugged 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.

- Tough, drop resistant case stands up in the harshest environments
- Powerful, noticeable alarms (103 dB @ 1m, 360° LEDs) to keep your people safe
- Long lasting battery (up to 170 hours) prolongs deployment in the field
- Easy to move and setup (weighs less than 15 lbs.)
- "Plug and Play" sensors for simple maintenance
- Over four work months of datalogging capacity
- Intrinsically safe
- Aspirated version available with sample draw of 30m (100 ft.)\*

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.

\* Available for BM25 (6514842) only  
 \*\* Available for BM25A (6514872) only

### SPECIFICATIONS†

#### INSTRUMENT WARRANTY:

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

#### CASE MATERIAL:

Impact resistant polycarbonate

#### DIMENSIONS:

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

#### WEIGHT:

6.8 kg (15 lbs)

#### ALARMS:

103 dB @ 1 meter, Ultrabright LED beacon visible 360 degrees

#### POWER SOURCE:

NiMH; Run Time: 170 hours maximum operating time, 100 hours typical  
 Recharge Time: 4.5 hours

#### SENSORS:

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

#### MEASURING RANGES:

SENSOR	RANGE	RESOLUTION
Catalytic Bead		
Combustible Gas	0-100% LEL	1%
Methane	0-5% vol	0.01%
<b>ELECTROCHEMICAL</b>		
Carbon Monoxide	0-1,000 ppm	1
Carbon Monoxide (High Range)	0-2,000 ppm	1
Oxygen	0-30% vol	0.1%
Hydrogen Sulfide	0-100 ppm	1
Nitrogen Dioxide	0-30 ppm	0.1
Sulfur Dioxide	0-30 ppm	0.1
Chlorine	0-10 ppm	0.1
Chlorine Dioxide	0-3 ppm	0.1
Carbon Monoxide/	CO: 0-500 ppm	1
Hydrogen Sulfide (COSH)	H <sub>2</sub> S: 0-200 ppm	1
Hydrogen	0-2,000 ppm	1
Hydrogen Chloride	0-30 ppm	0.1
Hydrogen Cyanide	0-30 ppm	0.1
Ammonia	0-1,000 ppm	1
Nitric Oxide	0-300 ppm	1
Phosphine	0-1 ppm	0.01
Arsine	0-1 ppm	0.01
Silane	0-50 ppm	0.1
Ethylene Oxide	0-30 ppm	0.1
<b>INFRARED</b>		
Methane (% vol)*	0-100% vol	1%
Methane (% LEL)*	0-100% LEL	1%
Propane (% LEL)*	0-100% LEL	1%
Butane (% LEL)*	0-100% LEL	1%
Isobutane (% LEL)*	0-100% LEL	1%
LPG (% LEL)*	0-100% LEL	1%
Ethanol (% LEL)*	0-100% LEL	1%
Pentane (% LEL)*	0-100% LEL	1%
Carbon Dioxide	0-5% vol	0.1%
<b>PHOTOIONIZATION DETECTOR</b>		
VOC*	0-2,000 ppm	1

## SPECIFICATIONS continued

**OPERATING TEMPERATURE RANGE:**  
-20°C to 50°C (-4°F to 122°F)

**OPERATING HUMIDITY RANGE:**  
15%-95% non-condensing (continuous)

**DISPLAY:**  
Graphic liquid crystal display w/backlight

**DATALOGGING CAPACITY:**  
700 hours with 5 gases

**CERTIFICATIONS:**

- ATEX : II 1G/ Ex ia IIC T4 Ga; I M1 / Ex ia I Ma  
Or (when used with IR flameproof sensor)  
II 2G/ Ex ia d IIC T4 Gb; I M2 Ex ia d I Mb
- 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 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)

**SUPPLIED WITH MONITOR:**

Instruction manual, calibration adapter, universal input charger, maintenance tool.

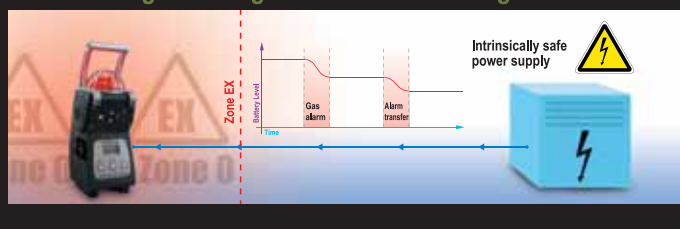
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Multiple units can be grouped using optional alarm transfer kits. This protects larger areas by transferring alarms from one BM25 to the next. An intrinsically safe trickle charger is also available for long-term area monitoring in classified zones.

### Alarm transfer and safety perimeter



### Trickle charge for long term area monitoring



ISO 9001:2008  
CERTIFIED

ISO 14001:2004  
CERTIFIED

## INDUSTRIAL SCIENTIFIC

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## COMMON INSTRUMENT CONFIGURATIONS

PART NO.	DESCRIPTION
6514872-K12300	BM25 - LEL (Pentane), CO, H <sub>2</sub> S, O <sub>2</sub>
6514842-K12301	BM25 - LEL (Pentane), CO, H <sub>2</sub> S, O <sub>2</sub> , Pump*
6514872-K00000	BM25 - LEL (Pentane)
6514872-L00000	BM25 - LEL (Methane)
6514872-010000	BM25 - CO
6514872-002000	BM25 - H <sub>2</sub> S
6514872-000300	BM25 - O <sub>2</sub>
6514872-K02350	BM25 - LEL (Pentane), H <sub>2</sub> S, O <sub>2</sub> , SO <sub>2</sub>
6514872-K03J50	BM25 - LEL (Pentane), O <sub>2</sub> , CO/H <sub>2</sub> S, SO <sub>2</sub>
6514842-K003R0	BM25 - LEL (Pentane), O <sub>2</sub> , PID*
6514872-0103Q0	BM25 - CO, O <sub>2</sub> , CO <sub>2</sub>
6514872-K0D3J0	BM25 - LEL (Pentane), NO, O <sub>2</sub> , CO/H <sub>2</sub> S
6514872-K04J50	BM25 - LEL (Pentane), NO <sub>2</sub> , CO/H <sub>2</sub> S, SO <sub>2</sub>
6514872-K67300	BM25 - LEL (Pentane), NH <sub>3</sub> , Cl <sub>2</sub> , O <sub>2</sub>

## OPTIONAL ACCESSORIES

WLOGUSB	BM25 Datalink Adapter Kit (Software w/USB Adapter Cable)
6321388	BM25 Tripod
6315862	BM25 Alarm Transfer Kit (Cable length = 25 m)
6315863	BM25 Alarm Transfer Kit (Cable length = 50 m)
6315864	BM25 Alarm Transfer Kit (Cable length = 100 m)
6311085	BM25 Intrinsically Safe Trickle Charge Kit (Cable length = 25 m): one IS power supply and wiring arrangements
6311089	BM25 Intrinsically Safe Trickle Charge Kit (Cable length = 50 m): one IS power supply and wiring arrangements
6311093	BM25 Intrinsically Safe Trickle Charge Kit (Cable length = 100 m): one IS power supply and wiring arrangements and wiring arrangements

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