





Presentation

The BM 25A 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.

- Detect up to 5 gases simultaneously
- 103 dB at 3 feet audible alarm
- Ultra-bright flashing signal at 360°
- Run time of 170 hours
- Resistant to harsh environment
- Easily transportable less than 15 lbS
- 30 devices per network
- 16 independent networks
- More than 0.5 mile RF line of sight
- Data acquisition to a controller





BM 25A & BM 25A Wireless

Transportable Gas Detection

Available as an option, the radio communication allows several BM 25A devices to communicate on the same network or to send information wirelessly to a controller.

Adding a BM 25A on an existing network has never been so easy as you just need to turn it on. The BM 25A is automatically added on the network will report a corresponding alarm. • Up to 30 BM 25A can be methods. • Up to 10 networks can coexist with no interference Safety Function Remains If a BM 25A does not respond or if the network has is split, then it is possible to continue to work by the time of the restoration of the network. The gas detection remains effective and each BM 25A would still locally alarm in the presence of gas. Network Self-Healing When the obstacle is gone, the communication resumes automatically. The two groups merge together to form only one group again.

How does the MESH network, work?

Hosts are connected peer-to-peer manner, forming a net-like structure

- No central hierarchy
- Each node can receive, send and relay data
- If a node is down, it goes through another route
- Maximum distance between two communicating devices is 0.6 mile line of sight

Benefits of Mesh Topology:

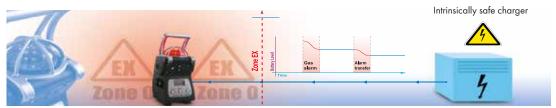
- Fast and simple deployment
- High coverage versatility
- High fault tolerance
- · Significantly reduces installation and network operating costs

Alarm & Datalogging Capabilities:

- 360° flashing signal
- 103 dB at 3 feet audible alarm.
- STEL and TWA values are available
- Datalogging capacity of more than four months (for 5 gases configuration).

Batteries

- Provide up to 170 hours of continuous runtime
- Full recharge in only 4 1/2 hours
- Safe trickle charger for long-term monitoring in classified zones.



Trickle charge for long term area monitoring

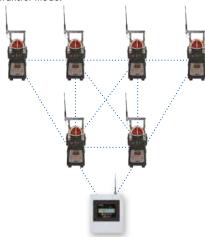


BM 25A & BM 25A Wireless

Transportable Gas Detection

Smartwireless HMI

BM 25As send fault status, alarm status and gas measurements to the controller. As soon as one BM 25A fires an alarm, the controller relays the information to all BM 25As on the same network that then turn in Alarm Transfer mode.



MX40 Controller

The SmartWireless® MX 40 Controller provides operator interface to the network and real time status display of all network devices. Flexible and expandable, a MX 40 network consists of any combination of (up to 16) BM 25A wireless and/or (up to 32) wireless and/or (up to 32) wireless and/or wireless and/or wireless and/or (up to 32) wireless and/or wireless and/or wireless and/or wireless and/or (up to 32) wireless and/or wire

The Model MX 40 also allows for expanded use of Oldham addressable I/O modules that include a 4-channel 4-20mA input module (DA-4), a 4-alarm relay output module (RL-4), a 4-channel 4-20mA output module (AO-4), and a 4-relay contact input module (DI-4). Oldham modules can be mounted within the main system enclosure or installed remotely to simplify field wiring.



BM 25A & BM 25A Wireless

Transportable Gas Detection

excluding consumables (sensors, filters, etc.) Int polycarbonate Int (16.7" x 7.1" x 7.5") Int display with backlight Catalytic Diffusion Butane, Isobutane, IPG, Ethanol, Pentane – Infrared area – Electrochemical
In (16.7" x 7.1" x 7.5") Il display with backlight Catalytic Diffusion Butane, Isobutane, LPG, Ethanol, Pentane – Infrared rases – Electrochemical
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0-100% ELE in 1% increments – Infrared 0-100% ELE in 1% increments 0-100% ELE in 1% increments 0-100% ELE in 1% increments 0-100 pm in 1 pm increments 0-2000 pm in 1 pm increments 0-30 pm in 0.1 ppm increments 0-100 ppm in 1 ppm increments 0-100 ppm in 1 ppm increments 0-100 ppm in 0.1 ppm increments 0-100 ppm in 0.1 ppm increments 0-50 ppm in 1 ppm increments 0-50 ppm in 1 ppm increments 0-10 ppm 0.1 ppm increments
/ - IEEE 802.15.4 work Works tance : 0.6 mile line of sight
fired or Wireless Up to 16 BM 25A ight zones dition LEDs ald Device Location, Alarm Status, ng, Battery Life & Signal Strength
ents
on visible 360 degrees
°F to 122°F) sensor dependent
or dependent
urs operating time, 135 hours in wireless mode)

ATEX & IECEx VERSIONS	
BM 25A (standard version) Without IR sensor:	II 2G / I M 1 Ex db ia IIC T4 Gb / Ex ia I Ma
With IR sensor:	II 2G / I M2 Ex db ia IIC T4 Gb / Ex db ia I M
BM 25 AW (wireless version) Without IR sensor:	II 2G / I M 1 Ex db ia IIC T4 Gb / Ex ia I Ma
With IR sensor	II 2G / I M2 Ex db ia IIC T4 Gb / Ex db ia I M
INMETRO VERSION	
BM 25A (standard version) Without sensor IR:	Ex ia I Ma Ex db ia Ilc T4 Gb IP66 -20°C ≤ Ta ≤ +55°C
With sensor IR:	Ex db ia I Mb Ex db ia IIC T4 Gb IP66 -20°C ≤ Ta ≤ +55°C
BM 25AW (wireless version) Without sensor IR:	Ex ia 1 Ma Ex db ia 11C T4 Gb 1P66 -20 °C ≤ Ta ≤ +55 °C
With sensor IR:	Ex db ia 1 Mb Ex db ia 11C T4 Gb 1P66 -20 °C ≤ Ta ≤ +55 °C

Teledyne Oldham Simtronics' quality assurance programs require continuous assessment and improdetails, please don't hesitate to contact Teledyne Oldham Simtronics or one of their representatives.



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AMERICAS

14880 Skinner Rd Cypress, TX 77429, USA Tel.: +1 713-559-9200 Fax: +1 281-746-3064

EMEA

EMEA
ZI Est, Rue Orfila,
CS 20417
62027 ARRAS CEDEX, France
Tel.: +33-3-21-60-80-80
Fax: +33-3-21-60-80-00

ASIA PACIFIC
Room 04, 9th Floor, 275 Ruiping
Road,
Xuhui District, Shanghai, China TGFD_APAC@teledyne.com

www.teledynegasandflamedetection.com