

BM 25 WIRELESS

FREQUENTLY ASKED QUESTIONS



1. Does the BM 25 Wireless have the same features than the BM 25?

Yes, the BM 25 Wireless has the same features than the standard version. Alarm transfer operates the same way but without the need of cables!

2. What does the Wireless function do?

Available as an option, the radio communication allows several BM 25 to communicate on the same network (*BM 25 mode*) or to send information wirelessly to a X40 controller from DETCON (*CONTROLLER mode*).

3. What information is sent on the network?

When in *BM 25 mode*, BM 25s send information regarding gas alarm and fault status. Once a BM 25 is in gas alarm, the alarm is repeated on all other BM 25s on the same network.

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

4. How does the network work?

The network topology used by the BM 25 is a MESH network. In a mesh network all hosts are connected peer to peer without central hierarchy, thereby forming a net-like structure. Consequently, each node can receive, send and relay data. This avoids having sensitive points, which in case of failure, cut the connection of the network. If a node is down, its neighbors go through another route.

5. How many BM 25s can the network support?

Up to 30 BM 25s can be meshed on the same network and up to 16 networks can coexist with no interference.

6. What is the communication range?

Wireless communication is made via a 2.4 GHz radio and emitted power is less than 100 mW. Maximum distance between two communicating devices is 3,300 feet line of sight.

7. How to set up the network?

Setting is very easy and is limited to enter the network ID in the BM 25 maintenance menu. To add a new BM 25 to an existing network, simply turn the unit on. Each BM 25 with the same network ID is automatically included as long as it communicates with at least one BM 25 belonging to the same network.

8. Is the wireless version safer than the standard version?

Absolutely. Since the alarm transfer cable is not monitored whereas the radio communication is checked every 10 seconds, the BM 25 Wireless is very secure.

9. Is the radio communication an option or not?

The Wireless function is an option that must be selected upon ordering.

10. I already have BM 25s. Can I upgrade them?

Yes, it is possible to upgrade BM 25s with wireless communication. BM 25s shall be returned to the factory for upgrade.

11. What is the operation runtime of the BM 25 Wireless?

BM 25 Wireless only draws 20% more current than the standard version when the radio is ON. The operating runtime varies between 35 hours and 130 hours depending on configuration.

Configuration (sensor type)	Without Radio (in hours)	With Radio (in hours)
1 catalytic 2 infrared	40	35
1 catalytic 1 infrared	70	50
1 catalytic 3 toxic	100	65
3 toxic	170	130

12. Can a manual call point be connected to one BM 25 Wireless?

Logic input on BM 25 Wireless is still available. It is therefore possible to wire a manual call point to the logic input.

13. Can a BM 25 be connected to a BM 25 Wireless?

Logic input on BM 25 Wireless is still available. It is therefore possible to wire the relay output of a BM 25 to the logic input of a BM 25 Wireless in order to transfer wirelessly gas alarms issued by standard BM 25s.

14. What about the compatibility of accessories?

BM 25 Wireless shares the same accessories as the BM 25 such as trickle charger, alarm transfer, AC charger, vehicle charger, etc.