WIRELESS FIRE DETECTION

EMS wireless technology can now be integrated into any system using the Universal Wireless Zone Monitor (WZM).

Utilising the full range of EMS FireCell wireless devices it is possible to extend into areas where cable may present installation issues or wireless is simply preferred for aesthetic reasons.

EMS is acknowledged as the leading developer of wireless technology leading the way with innovative and intuitive solutions. Based in Kent, EMS has been in the wireless business for over 45 years, manufacturing from our award wining factory in Herne Bay.

Our philosophy is one of working with industry partners to completely satisfy their customers. Flexibility is often one of the key factors when considering fire detection requirements. Protection is of course the first order of the day but business continuity and disruption are often determining factors when decisions are ultimately made.

The Wireless Zone Monitor has been developed to integrate into any system with each WZM supporting up to 30 wireless devices of any mix, regardless of power requirements. This allows power hungry devices such as Sounders or Visual Alarm Devices (VADs) to be added to a system without taking power or address slots from the loop.

Each wireless field device has its own dual power supply which meets the requirements of both BS5839 and EN54-25 providing a minimum of three years service. The Wireless Zone Monitor requires 24v supply either via the main panel or a dedicated PSU.

WZMs have been developed to be as flexible as possible and there are a number of differing configurations which can be implemented depending on the host system as well as application requirements.

We would recommend you discuss your requirements with EMS Technical Support or with your local Field Support Engineer.

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Each WZM supports the following wireless devices:

- Manual Call Point
- A1R Heat Detector
- CS Heat Detector
- Multisensor Detector
- Optical Smoke Detector
- Sounder
- Visual Indicator
- Combination Detector/Sounder/Indicator
- EN54-23 Visual Alarm Device
- Input/Output Modules

Part Number: EK-10-0001

MK83 V2 March 2015 Universal (Export) WZM

Universal Wireless Zone Monitor Installation Schematic

HOST SYSTEM I/O UNIT

ZONE ALARM OUTPUT

ZONE FAULT OUTPUT

RESET

SOUND ALARMS

ZIM

24 VOLTS FROM EN54-2 SOURCE OR FROM ZONE MONITOR

WZM

Wireless Zone

30

Legend:

ZIM — Zone Interface Module

WZM — Intelligent Wireless Zone Monitor

30 — 30 Device Radio Cluster

Radio Communication Path

Fire Rated Loop Wiring 126 Devices Per Loop 1Km in Length

2 core 1.0mm² / core screened

Detector

Combined Sounder / Detector

Callpoint

Sounder