

FMS5 / FMS10 / FMS20 Zoneable Fireman's Microphone Stations



Description

The FMS5, 10 and 20 Fireman's Microphone Stations each comprise a lockable wall-mounting box housing a fist microphone and associated electronics and are designed to work with the whole range of ASL Voice Alarm.

The FMS5 provides 5 zone selection capability whilst the FMS10 and 20 provide 10 and 20 zones respectively, while, instead of zone selection, any of the buttons may be configured to broadcast pre-recorded messages. The FMS5-20 will operate in an all-call mode even in the event of processor failure within the router, as required by BS 5839 Pt 8. In this instance, the 'All Call Only' LEDs will illuminate to indicate the restricted function.

An in-built signal limiting automatic gain control is provided to help compensate for varying operator technique.

A processor within the Fireman's Microphone Stations interfaces all LEDs and switches to the DSP Router by means of a serial interface, while microphone audio is provided as a balanced 0dBu (nominal) analogue signal. The microphone's processor is also responsible for generating an outgoing low-frequency surveillance tone which is used to monitor the audio connection to the VAR Router, while microphone capsule monitoring is performed by injection and monitoring of a signal such that either open or short circuit of the capsule or associated wiring will indicate a fault.

Hardwired connections are provided for the PTT switch and 'Speak Now' and 'All Call Only' LEDs. This cabling is continuously monitored by the router for open and short circuits.

Field connections are provided by internal DIN rail mounted terminals. Top and bottom cable entry points are provided. Rear cable entry is also catered for by means of 'knock-outs' in the rear of the box.

For further details please refer to the FMS5 / FMS10 / FMS20 product manual, the DSP Router manual and the Application Solutions PA/VA Systems Design Handbook.

Specification

General

Supply voltage range.....	18 – 40V DC
Current consumption maximum - all LEDs on	
FMS5	75mA @ 24V DC supply
FMS10	80mA @ 24V DC supply
FMS20	90mA @ 24V DC supply
Current consumption maximum - Quiescent	
FMS5 / FMS10 / FMS20	64mA
Format	Wall mounting box
Fire microphone facility	BS 5839 Pt 8 compliant
Microphone.....	Fist
Zone select buttons (can also control routes or DVAs)	
FMS5	5
FMS10	10
FMS20	20
Other buttons.....	PTT button on fist microphone
LEDs.....	2 Zone Select LEDs per zone button (zone Busy and zone Selected)
	All Call Only (twin)
	Speak Now (twin)
	Status
Colour	Red RAL3020

Dimensions and Weight

Dimensions (H x W x D)	300mm x 350mm x 88.5mm (excluding handle)
Weight	
FMS5 / FMS10.....	5.7kg
FMS20	5.9kg

Environmental

Temperature (storage and operating)	-5°C to +50°C
Humidity range	0% to 93% Non-condensing



This equipment is designed and manufactured to conform to the following EC standards:

EMC EN 55103-1 Environment E1, EN 55103-2 Environment E5

Safety EN 60065

Failure to use the equipment in the manner described in the product literature will invalidate the warranty.

A 'Declaration of Conformity' statement to the above standards, and a list of auxiliary equipment used for compliance verification, is available on request.

Manufacturer

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