Product data sheet

EST-DFMS

Fireman Microphone

Overview

A EST ENT VES fireman microphone is a monitored external device working with Control Units in a redundant communication ring. It can thereby perform a superior function of a system control unit, too.

A fireman microphone can be used to activate alarm messages as well as general public announcements, to choose individual zones and to broadcast live voice messages. It is equipped with programmable function keys which can be used to assign functions as required. Up to 5 EST-EKB-20M keyboard extensions with additional function keys can be attached to a fireman microphone.

A CPU switch enables immediate and direct broadcasting of announcements to all zones without any involvement of the control system even during a failure of the central processor. The microphone is able to automatically detect a key failure and an audio path from the microphone capsule (inclusive) to the Control Unit.

A fireman microphone is also equipped with an intercom function and is able to communicate with other microphones in the system.



Details

- Monitored microphone and connection of the microphone module to the system
- A dedicated evacuation key
- 3 fully-programmable keys with a possibility of connecting up to five 20-key extensions
- Built-in 2 contact inputs and 2 relay outputs
- POE or external feeder based power supply
- Black-box function – recording all announcements played during an alarm
- Built-in SFP modules and CAT5e for simplicity of implementation of the loop topology
- RS485 for communication with external systems
- Intercom function between all fireman and zone microphones

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Technical specifications

Eléctrico

Consumo de corriente	266 mA max. for 48 VDC / 5 keyboard extensions

Físico

Dimensiones físicas	150 x 55 x 210 mm (W x H x D)

Medioambiental

Temperatura de funcionamiento	0°C to +60°C
Temperatura de almacenamiento	-20°C to +70°C
Clasificación IP	31

Estándares y regulaciones

Normativas	EN54-16

Environmental

Operating humidity	15% to 80%
Storage humidity	5% to 95%

Electrical

Power source	via LAN PoE or local power supply complies with EN 54-4
Input voltage	48 V connector 2 pin screw 5.08 mm

Physical

Transmission medium	fiber, UTP Cat. 5e
Number of parametric inputs	2
Number of relay outputs	2
Connector type for logic input/output	screw 3.5 mm, 6 pin
Type of fiber optic	modules type SFP / connector SC / LC / multimode or single-mode / E 30 or E 90, OM lub OM2
Accessories	connector with screw terminals 6 pins, the distance between the partitions 5.08 mm

Listening speaker

Output	0.5 W
SPL	78 dBA (at 1m, 1W)
Frequency response (3 dB)	450 Hz ... 8 kHz

Audio input

Frequency response	400 Hz – 6 kHz (at 3 dB)
Impedance	500 Ω
Signal	-40 to 30 dBu
Sensitivity	-66 dB
Cable type, length	spiral - 1.5 m
Microphone connector	5 pin DIN

Keyboard and controls

Number of buttons	3
Number of control panel buttons	2 LED / button
Dimensions of the buttons description	15 x 25 mm
Three normative LED controls	color LEDs: power – green / failure – yellow / alarm – red

Logic Input / Output

Number of I / O logic	2 independent channels; galvanically isolated; each channel has 1 fully programmable input and output (NO / NC)
Parametric input source for monitor mode	passive; standard resistors 10 k || 10 kΩ or 4,7 kΩ - - 4,7 kΩ detection thresholds 0/1 / open / set in the application configuration
Type of socket I / O logic	6-pin screw terminal type PHOENIX, 3.5 mm
CPU-OFF switch	slide switch, two position, signaling LED color: yellow

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