

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

extensions 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 150 x 55 x 210 mm (W x H x D) Transmission medium fiber, UTP Cat. 5e Number of parametric 2 Connector type for logic screw 3.5 mm, 6 pin inputs modules type SFP / connector SC / LC / multimode or single-mode / E 30 or E 90, OM lul OM2 Accessories connector with screw terminals 6 pins, the distance between the partitions 5.08 mm Environmental 0°C to +60°C Storage temperature -2°C to +70°C IP rating 31 Operating humidity 5% to 80% Storage humidity 5% to 95% Standards EN54-16 Listening speaker 00 Output 0.5 W SPL 78 dBA (at 1m, 1W) Frequency response (3 450 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	Power consumption	266 mA max. for 48 VDC / 5 keyboard
EN 54-4 Input voltage 48 V connector 2 pin screw 5.08 mm Physical fiber, UTP Cat. 5e Physical dimensions 150 x 55 x 210 mm (W x H x D) Transmission medium fiber, UTP Cat. 5e Number of parametric 2 Onnector type for logic screw 3.5 mm, 6 pin input/output Type of fiber optic modules type SFP / connector SC / LC / multimode or single-mode / E 30 or E 90, OM lul OM2 Accessories connector with screw terminals 6 pins, the distance between the partitions 5.08 mm Environmental Operating temperature -20°C to +70°C IP rating 31 Operating humidity 15% to 80% Storage temperature -20°C to +70°C Present IP rating 31 Operating humidity 5% to 95% Standards EN54-16 Ensenting speaker Storage temperature Output 0.5 W SpPL 78 dBA (at 1m, 1W) Frequency response (3 450 Hz - 6 kHz (at 3 dB) Signal Impedance 500 Ω Signal -40 to 30 dBu Sensitivity -66 dB Cable type, length		
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Physical dimensions 150 x 55 x 210 mm (W x H x D) Transmission medium fiber, UTP Cat. 5e Number of parametric 2 inputs 2 Connector type for logic screw 3.5 mm, 6 pin input/output modules type SFP / connector SC / LC / multimode or single-mode / E 30 or E 90, OM lul OM2 Accessories connector with screw terminals 6 pins, the distance between the partitions 5.08 mm Environmental 0°C to +60°C Storage temperature 20°C to +70°C IP rating 31 Operating humidity 15% to 80% Storage humidity 5% to 95% Standards EN54-16 Listening speaker 200 Utput Output 0.5 W SPL 78 dBA (at 1m, 1W) Frequency response 450 Hz 8 kHz dB) 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 3 Number of control panel 2 LD / butt	Input voltage	48 V connector 2 pin screw 5.08 mm
Transmission medium fiber, UTP Cat. 5e Number of parametric 2 inputs 2 Number of relay outputs 2 Connector type for logic screw 3.5 mm, 6 pin input/output modules type SFP / connector SC / LC / Type of fiber optic modules type SFP / connector SC / LC / multimode or single-mode / E 30 or E 90, OM lul OM2 Accessories connector with screw terminals 6 pins, the distance between the partitions 5.08 mm Environmental Operating temperature 0°C to +60°C Storage temperature 20°C to +70°C IP rating 31 Operating humidity 15% to 80% Storage humidity 5% to 95% Standards EN54-16 Listening speaker Output Output 0.5 W SPL 78 dBA (at 1m, 1W) Frequency response (3 450 Hz 8 kHz dB) 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	Physical	
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Connector type for logic screw 3.5 mm, 6 pin input/output modules type SFP / connector SC / LC / Type of fiber optic modules type SFP / connector SC / LC / multimode or single-mode / E 30 or E 90, OM lul OM2 Accessories connector with screw terminals 6 pins, the distance between the partitions 5.08 mm Environmental 0°C to +60°C Storage temperature -20°C to +70°C IP rating 31 Operating humidity 15% to 80% Storage humidity 5% to 95% Standards & regulation Standards Standards EN54-16 Listening speaker Output Output 0.5 W SPL 78 dBA (at 1m, 1W) Frequency response (3 450 Hz 8 kHz dB) Mudoi input Frequency response 400 Hz - 6 kHz (at 3 dB) Impedance 500 Ω Signal -40 to 30 dBu Sensitivity -66 dB Cable type, length spinal - 1.5 m Microphone connector 5 pin DIN Keyboard and controls Number of buttons Number of buttons <t< td=""><td></td><td>2</td></t<>		2
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Operating humidity 15% to 80% Storage humidity 5% to 95% Standards & regulation Standards EN54-16 Listening speaker Output 0.5 W SPL 78 dBA (at 1m, 1W) Frequency response (3 450 Hz 8 kHz dB) 450 Hz 8 kHz Audio input 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 3 Number of buttons 3 Number of control panel 2 LED / button buttons 15 x 25 mm Dimensions of the 15 x 25 mm buttons description Three normative LED	Storage temperature	-20°C to +70°C
Storage humidity 5% to 95% Standards & regulation Standards EN54-16 Listening speaker Output 0.5 W SPL 78 dBA (at 1m, 1W) Frequency response (3 450 Hz 8 kHz dB) 450 Hz 8 kHz Mathematical Strength 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 control panel Number of control panel 2 LED / button buttons 15 x 25 mm buttons description Three normative LED Color LEDs: power - green / failure - yellow /	IP rating	31
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Cable type, length spiral - 1.5 m Microphone connector 5 pin DIN Keyboard and controls Number of buttons 3 Number of control panel 2 LED / button buttons 5 Dimensions of the 15 x 25 mm buttons description color LEDs: power - green / failure - yellow /	Signal	-40 to 30 dBu
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Three normative LED color LEDs: power - green / failure - yellow /	Dimensions of the buttons description	15 x 25 mm
	Three normative LED	

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 k Ω or 4,7 k Ω 4,7 k Ω 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



As a company of innovation, UTC Fire & Security reserves the right to change product specifications without notice. For the latest product specifications, visit UTC Fire & Security online or contact your sales representative.