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AUTROVOICE MULTIVES MICROPHONES

Voice alarm system
Product Datasheet

ABT-DFMS Fireman Microphone

- Monitored microphone and connection of the microphone module to the system
- Dedicated evacuation button
- Three fully programmable buttons and a possibility of connecting up to five 20-button extensions



A MULTIVES fireman microphone ABT-DFMS is a monitored external device cooperating with control units in a redundant communication ring. It can thereby perform a superior function of a system control unit, too.

A fireman microphone is used to induce alarm announcements as well as general announcements, to choose individual zones and to broadcast live voice announcements. It is equipped with programmable function buttons with the help of which functions chosen may be arbitrarily assigned. Up to five ABT-EKB-20M extensions with additional function buttons

may 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 button failure and an audio path to the microphone capsule.

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

Characteristics

- Built-in 2 contact inputs and 2 relay outputs
- POE or external feeder based power supply
- Black-box function – recording all announcements played back during an alarm
- Built-in SFP modules and CAT5e for simplicity of implementation of the loop topology
- RS 485 for communication with external systems
- Intercom function between all fireman and zone microphones
- EN 54-16



CNBOP-PIB
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1488-CPR-0500/W



| Technical specifications | ABT-DFMS |
|--|---|
| 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 |
| Power consumption | max 266 mA for 48 V DC / 5 keyboard extensions |
| Degree of protection | IP 31 |
| Transmission medium | fiber, UTP Cat. 5e |
| Number of parametric inputs | 2 |
| Number of relay outputs | 2 |
| Connector type for logic input/output | screw 3.5mm, 6 pin |
| Type of fiber optic | modules type SFP / connector SC / LC / multimode or single-mode / E 30 or E 90, OM or OM2 |
| Listening speaker | |
| Output | 0,5 W |
| SPL | 78 dBA (@1m, 1W) |
| Frequency response (3dB) | 450 Hz ... 8 kHz |
| Audio input | |
| Frequency response | 400 Hz – 6 kHz (@3dB) |
| 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 | 15x25 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 |
| Other parameters | |
| Operating temperature | 0°C to 60°C |
| Operating humidity | 15% to 80% |
| Storage temperature | -20°C to 70°C |
| Storage humidity | 5% to 95% |
| Dimensions | 150 (W) x 55 (H) x 210 (D) mm |
| Accessories | connector with screw terminals 6 pins, the distance between the partitions 5.08 mm |

ABT-DMS Zone Microphone



1488-CPR-0500/W



ABT-DMS can only be used for purposes not related to evacuation / alarm. Zone microphone is equipped with intercom function which provides two-way communication between the zone microphones. ABT-DMS

has 4 local audio inputs on board and 1 audio output which allows for further system extension. Communication with control units takes place via Ethernet 10/100BASE -TX, 1 LAN port.

Characteristics

- Four non-symmetrical audio inputs, (1/8") stereo jack connector
- Built-in speaker
- Stereo jack sockets for Headset / Audio out
- Implemented intercom function
- Extension up to five 20-button modules
- Power supply via POE or locally 48 VDC
- EN 54-16

| Technical specifications | ABT-DMS |
|-------------------------------------|--|
| Power supply | via PoE (RJ45) or by additional input power supply 48 V / 15 W DC connector 5,5 / 2,1 mm |
| Degree of protection | IP 31 |
| LCD | N/A |
| Number of outputs | 2 channel audio (monitor speaker, headset) |
| Number of inputs | 4 channels (single-ended input bgm) |
| Listening speaker | |
| Output | 0,5 W |
| SPL | 78 dBA (@1m, 1 W) |
| Frequency response (3dB) | 450 Hz ... 8 kHz |
| Output for headphones (headset) | mini-jack 3,5 mm |
| Audio Inputs | |
| Input type | single-ended, 4x bgm |
| Frequency response | 50 Hz ... 18 kHz (@3dB) |
| ADC resolution | 32 bit |
| Sampling frequency | 48 kHz |
| Connector | 2x mini-jack 3,5 mm |
| Microphone input | |
| Input, connector type | balanced inputs, XLR |
| Condenser microphone, gooseneck | |
| Frequency response | 100 Hz ... 10 kHz |
| Sensitivity | -45dB |
| Keyboard and controls | |
| Number of keys | 9 + PTT |
| Additional three normative controls | power – green / failure – yellow / activity – green |
| LED colors | RGB (red, green, yellow, blue) |
| Other parameters | |
| Operating temperature | -8°C to 60°C |
| Operating humidity | 15% to 80% |
| Storage temperature | -20°C to 70°C |
| Storage humidity | 5% to 95% |
| Dimensions | 120 (W) x 55 (H) x 210 (D) mm |
| Weight | 1,4 kg |

ABT-DMS-LCD Zone Microphone with LCD



1488-CPR-0500/W

For intuitive and easier operation, ABT-DMS-LCD has been equipped with a touch-screen display. Navigation in the menu and change of settings is possible by means of both control buttons located next to LCD display, and touch-screen display. ABT-DMS-LCD can only be used for purposes not related to evacuation/ alarm.

Zone microphone is equipped with intercom function which provides two-way communication between the zone microphones. ABT-DMS-LCD has 4 local audio inputs on board and 1 audio output which allows for further system extension. Communication with control units takes place via Ethernet 10/100BASE -TX, 1 LAN port.

Characteristics

- 4,5" LCD touch screen for fast and clear matrix and system management
- Four non-symmetrical audio inputs, (1/8") stereo jack connector
- Built-in speaker
- Stereo jack sockets for Headset / Audio out
- Implemented intercom function
- Extension up to five 20-button modules
- Power supply via POE or locally 48 VDC
- EN 54-16

| Technical specifications | ABT-DMS |
|-------------------------------------|--|
| Power supply | via PoE (RJ45) or by additional input power supply 48 V / 15 W DC connector 5,5 / 2,1 mm |
| Degree of protection | IP 31 |
| LCD | N/A |
| Number of outputs | 2 channel audio (monitor speaker, headset) |
| Number of inputs | 4 channels (single-ended input bgm) |
| Listening speaker | |
| Output | 0,5 W |
| SPL | 78 dBA (@1m, 1 W) |
| Frequency response (3dB) | 450 Hz ... 8 kHz |
| Output for headphones (headset) | mini-jack 3,5 mm |
| Audio Inputs | |
| Input type | single-ended, 4x bgm |
| Frequency response | 50 Hz ... 18 kHz (@3dB) |
| ADC resolution | 32 bit |
| Sampling frequency | 48 kHz |
| Connector | 2x mini-jack 3,5 mm |
| Microphone input | |
| Input, connector type | balanced inputs, XLR |
| Condenser microphone, gooseneck | |
| Frequency response | 100 Hz ... 10 kHz |
| Sensitivity | -45dB |
| Keyboard and controls | |
| Number of keys | 9 + PTT |
| Additional three normative controls | power – green / failure – yellow / activity – green |
| LED colors | RGB (red, green, yellow, blue) |
| Other parameters | |
| Operating temperature | -8°C to 60°C |
| Operating humidity | 15% to 80% |
| Storage temperature | -20°C to 70°C |
| Storage humidity | 5% to 95% |
| Dimensions | 120 (W) x 55 (H) x 210 (D) mm |
| Weight | 1,4 kg |

Microphone Keyboard Extension

- Can be attached to a fireman microphone or a zone microphone
- Offers an additional 20 function buttons
- EN 54-16



1488-CPR-0500/W

2374/2015

| Technical specifications | ABT-EKB-20M |
|--|---|
| Power supply | RJ45 from DFMS or DMS |
| Degree of protection | IP 31 |
| Keyboard and controls | |
| Number of keys | 20 |
| Number of LED | 20x RGB + 20x green |
| LED color | RGB (red, green, blue) + separate LED green |
| Other parameters | |
| Operating temperature | 0°C to 60°C |
| Storage temperature | -20°C to 70°C |
| Operating humidity | 15% to 80% |
| Storage humidity | 5% to 95% |
| Weight | 1,4 kg |
| Dimensions of the space for the description of the buttons | 15x25 mm |
| Dimensions | 120 (W) x 55 (H) x 210 (D) mm |

| Product name | Part number | Description |
|--------------|-----------------|-------------------------------|
| ABT-DFMS | 116-ABT-DFMS | Fireman microphone |
| ABT-DMS | 116-ABT-DMS | Zone microphone |
| ABT-DMS-LCD | 116-ABT-DMS-LCD | Zone Microphone with LCD |
| ABT-EKB-20M | 116-ABT-EKB-20M | Microphone keyboard extension |

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