

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



1488-CPR-0620/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-0620/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-0620/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

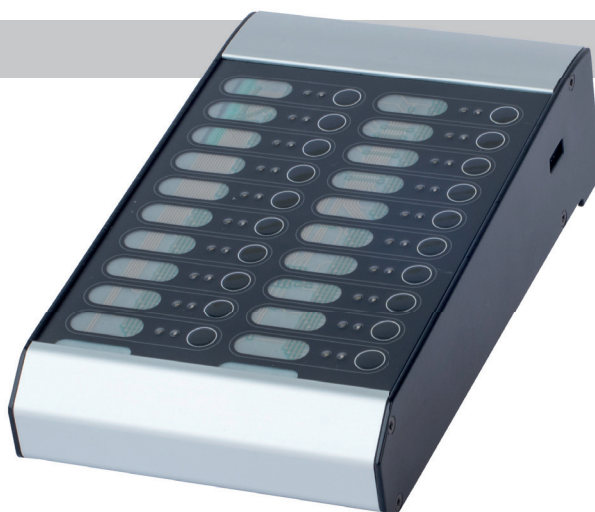
Technical specifications		ABT-DMS
Power supply	via PoE (RJ45) or by additional input power supply 48 V / 15 W DC connector 5,5 / 2,1 mm	
Degree of protection	IP 31	
LCD	N/A	
Number of outputs	2 channel audio (monitor speaker, headset)	
Number of inputs	4 channels (single-ended input bgm)	
Listening speaker		
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-0620/W



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