

User Manual

DAM-2570 A

Digital-Fire-Brigade-Selective-Remote-Microphone-Unit



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1. General



This operation manual includes important notes on safe operation of the unit. Please read all instructions and safety regulations. Keep these instructions for future reference. Take care that the operation manual is available to all users.

Our products are subject to continuous development. Therefore any technical modification subject to change without notice.

Symbols and Important Notes

This section provides you with an overview of safety warnings and symbols and their importance.

Safety Warning	Importance
DANGER!	Warning of a possible danger, which can lead to death or to serious injuries, if not avoided.
CAUTION!	Warning of a possible danger, which can lead to a possibly dangerous situation, if not avoided.

Warning Symbol	Type of risk
	Caution! Warning of a possible danger!
	Caution! Risk of electric shock!

2. Safety Instructions

1. Please read all instructions before operating the unit.
2. Keep these instructions for future reference.
3. Follow manufacturer's instructions.
4. Pay attention to all warnings. Do not remove any safety instruction or other information from the unit.
5. Use the unit only in the intended way.
6. Take note of applicable safety regulations.
7. **CAUTION!** Do not use this unit near water or moisture. Take care that no liquid penetrates into the unit.
8. The installation must be carried out only with accessories recommended by AUDEMO SYSTEMS[®]. All options could only be assembled ex works in terms of warranty.
9. **CAUTION!** Do not open or modify the unit.
10. Opening of the security protected unit for servicing, repair and so on is only allowed by the service department of AUDEMO SYSTEMS[®]. Interventions to the unit and breaking the seals will invalidate the warranty agreement!
11. Opening of the unit deactivates all functions! For a reactivating in factory a fee will be charged!
12. **CAUTION!** Always take care about all connections and cables after installation to avoid damages and accidents with e.g. trip hazards.
13. **CAUTION!** In any case of acute malfunction of the unit, damage or impact of objects or fluids, switch off the unit immediately and disconnect mains and emergency power supply. The unit as well as the system could only be repaired or changed by the specialized company, the contracted maintenance company or the manufacturer.
14. Clean the surface of the unit with a soft cotton cloth.
15. Pay attention to actual waste disposal laws and regulations.

Please Note:



DANGER!
Risk of electric shock of dangerous voltage within the units enclosure

Within the units enclosure there are uninsulated parts with height electric tension. Do not remove the cover. There are no user serviceable parts inside.



CAUTION!
Operating Conditions

The unit is intended for indoor use. To prevent damage do not use this unit near liquids and moisture. Avoid direct sunlight, heavy dirt or strong vibration.



DANGER!
Possible Hearing Damage

The system produces a volume level which could damage your hearing continuously or temporarily while listening to long to headphone or loudspeaker sound sources.

Do not reproduce high volume levels for a long time. Reduce the level immediately if any noise in ear or hearing loss occurs. Note: The level of the alert announcement may not be changed!



CAUTION!
Power Supply

Verify the mains connection before installation of the unit. Compare local conditions with the information of the schematic diagram.

Initial operation, maintenance and servicing could only be affected by the specialized company, the contracted maintenance company or the manufacturer.

3. Technical Features

According to DIN EN 60849 the PADES[®]2000 **Digital-Fire-Brigade-Selective-Remote-Microphone-Unit DAM-2570 A** is a monitored fire-brigade-remote-microphone with the possibility of room- and group-calls using up to ten programmable memory keys. The remote-microphone-unit allows the connection and operation with a digital PADES[®]2000-system. The remote-microphone is attached in red, solid steel panel housing with an integrated, replaceable inspection glass. The housing could be locked with a standard half-cylinder format lock. The lock is interchangeable in order to meet requirements of the local fire brigade. The integrated **Digital-Fire-Brigade-Handheld-Microphone DAM-2540 A** features a push-to-talk button, helix cable and a high effective magnetic holder. The remote microphone is normative completely monitored, on one hand the signal path including the microphone cartridge on the other the push-to-talk button and the connection cable.

The standard design requires a **Digital-Fire-Brigade-Microphone-Connection-Board DAM-2542 A** to enable passive monitoring by PADES[®]2000-system.

As an option you can use **Digital-Fire-Brigade-Microphone-Signal-Connection-Board DAM-2541 A** with a digital interface for normative monitoring and in addition

- Digital audio-bus control for noiseless synchronisation.
- Integrated noiseless microphone pre-amplifier.
- Integrated dynamic-processor to improve speech-quality in case of alarm with compensation of volume-variation and suppression of over-modulation.
- Integrated noise-gate to open the signal-path not before the user begin to speak.
- Integrated hidden attached volume control.
- Integrated hidden attached active 3-band tone control.
- Optional A.F.-output-transformer **DAM-2580 A** for balanced, galvanic separated connection to active signal path in PADES[®] 2000-system with highest noise immunity and to eliminate hum and static noise even on a long transmission path.

Digital-Fire-Brigade-Microphone-Selective-Call-Board DAM-2545 A (optional) offers furthermore as a digital interface:

- Ten programmable memory keys for room- and group-call.
- Illuminated and custom-labelled keys for precise assignment.

Note: The actual application, functionality and programming is adapted to building conditions and equipped individually on consumer's request.

4. Operation

Emergency announcement with a fire brigade remote microphone DAM-2570 A:

- **Attention: Emergency announcement must only be executed by authorized persons e.g. police, fire fighter or rescue forces. The emergency announcement is a live-announcement with highest priority. Even the automatic alert announcement caused by fire detection will be interrupted!**
- Remove the handheld microphone DAM-2540 from its holder.
- Select with the ten memory keys the group-zones.
- Push the lateral push-to-talk button and keep it pressed.
- Start to talk then slowly and clearly. Keep a 2 to 3 cm distance to the microphone.
- In order to quit the announcement, release the push-to-talk button.
- Put the microphone to its magnetic holder to fix it in its housing again.
- **Attention: The red, solid steel panel housing is locked with a standard half-cylinder format lock (fire brigade lock) according to DIN 18252 to prevent any misuse.**

5. Options

Order number	Description	Max. extension per unit
DAM-2570 A	Digital-Fire-Brigade-Selective-Remote-Microphone-Unit	
DAM-2540 A	Digital-Fire-Brigade-Handheld-Microphone	1x
DAM-2541 A	Digital-Fire-Brigade-Microphone-Signal-Connection-Board	1x
DAM-2542 A	Fire-Brigade-Microphone-Connection-Board	1x
DAM-2545 A	Digital-Fire-Brigade-Microphone-Selective-Call-Board	1x
DAM-2580 A	A.F.-Input/Output-Transformer	1x
DMS-2098 A	Special-Legend	11x

All options could only be assembled ex works. All components of the electroacoustic system could only be delivered referring to a project. Unfortunately there is no possibility of buying single components.

6. Technical Specifications

Digital-Fire-Brigade-Selective-Remote-Mic.-Unit (DAM-2570 A)

Power supply	24 V DC
Power consumption	35 mA
Colour (surface)	RAL 3000 (red)
Dimensions (W x H x D)	227 x 180 x 57 mm
Weight	2.1 kg

Digital-Fire-Brigade-Handheld-Mic. (DAM-2540 A)

Microphone cartridge	dynamic
Polar pattern	cardioid
Sensitivity	78 dB
Frequency response	300-8.000 Hz
Impedance	600 Ohm
Monitoring	cartridge, push-to-talk button, connection cable
Dimensions (W x H x D)	60 x 105 x 45 mm
Weight	150 g

Digital-Fire-Brigade-Mic.-Signal-Connection-Board (DAM-2541 A)

Power supply	24 V DC
Power consumption	55 mA
Noise-Gate	3:1
Tone-control	bass: 100 Hz +/- 12 dB mid: 2,8 kHz +/- 12 dB high: 10 kHz +/- 12 dB
Output level	0 dB, balanced
Output impedance	600 Ohm
Dimensions (W x H x D)	120 x 75 x 40 mm
Weight	120 g

Fire-Brigade-Mic.-Connection-Board (DAM-2542 A)

Dimensions (W x H x D)	120 x 75 x 40 mm
Weight	80 g

Fire-Brigade-Mic.-Selective-Call-Board (DAM-2545 A)

Memory keys	10, illuminated
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A.F.-Input/Output-Transformer (DAM-2580 A)

Ratio	1:1
Frequency response	30-20.000 Hz
Harmonic distortion	< 0.4 %
Dimensions (W x H x D)	18 x 13 x 18 mm
Weight	65 g

7. Environment Protection

Note:



In any case of replacement, the substituted unit is taken back from the manufacturer.

Dispose of this Product



This product is subjected to European directive 2002/96/EG and 2012/19/EU (WEEE-directive). Dispose this product never with your domestic waste.

Dispose a control center system with an accredited waste disposal company or your local disposal facility. Take care of applicable regulations. In case of doubt please contact your local disposal facility.