

ABT-T2430

Horn-type Loudspeakers

Power: 15W, 100V

Overview

Horn-type fire alarm EST-T loudspeakers are designed for either simple or most complex and sophisticated sound-transmitting applications. They combine excellent acoustic parameters and high aesthetics with resistance to mechanical damages and varying weather conditions as well as simple assembling and low price. Quality standards and audio characteristics have been confirmed through tests and trials employing echo-proof chamber, resistance and integrity testing equipment, as well as chambers for resistance to weather and air humidity testing.

The EST-T series comprises highly efficient loudspeakers which produce sounds featuring directional characteristics and operate in any atmospheric conditions (A, B, C environmental type). Thanks to their balanced frequency band they guarantee high understanding of verbal communication. Furthermore, they can transmit musical background. Their casings are made of ABS UL94V0, a synthetic material featuring high resistance to mechanical damages and self-extinguishing properties. Loudspeakers are perfectly protected from dust and humidity (IP66). The assembling jig ensures adjusting the inclination for the optimum coverage of the area of communications.

EST-T loudspeakers are applied on circulation routes and inside the rooms with high after-sound as well as in widespread outdoor area broadcasting. They are unparalleled on sport sites, at swimming pools, in expo and industrial halls, warehouses, open and underground car parks, and in open areas such as e.g. stadiums, parks, etc.

EST-T loudspeakers entirely comply with global requirements concerning evacuation systems, including the standards such as BS5839 Part 8 and EN 54-24. They have been certified for product compliance and acceptance by ITB. Ceramic blocks, internal flame-resistant wiring, and temperature limit fuses protect the broadcasting line from short-circuits or breaks and ensure continuous operations even in case of fire-produced damages or burns. The loudspeaker located in the zone of fire is isolated from the sound-transmitting line. A special design eliminates the risk of fall of any of its burnt components, which ensures safe fire escape process. This feature has been confirmed by means of the most rigorous testing under the temperature of 822°C + ambient temperature.

Our EST-T loudspeaker offer comprises three power rating models, i.e. 10 W, 15 W, and 30 W. The individual rated power is selected by means of connection with applicable transformer branch. All the EST-T loudspeakers are designed so as to ensure continuous operations at rated parameters for at least 100 hours (consistent with IEC-268-5 Standard).

In spite of the fact our loudspeakers are designed for the highest reliability under fire conditions, they can be also used in any and all



Details

- Directional characteristic of sound emission and the highest verbal communication understanding
- High efficiency: EST-T2430 – 105 dB/ 1 W
- All the working environments – A, B and C
- Wall and ceiling installation
- Protection from dust and humidity: IP66 rating
- Two cable penetrations insulated by means of impedance coils
- Casing made of self-extinguishing ABS UL94V0 plastic, with steel assembling jig
- Test at the temperature of 822°C + ambient temperature
- 100% line protection from short-circuit and break in fire conditions

public address systems.

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Technical specifications

Electrical

Rated power	30 W
Tappings 100 V line according to EN 54-24, W	30 / 15 / 7.5 / 3.75
Tappings 70 V line, W	15 / 7.5 / 3.75 / 1.87
Transformer impedance, Ω 100 V	333 / 666 / 1330 / 2660
Driver impedance	8 Ω
Effective frequency range	400 – 7500 Hz
Sensitivity at 4 m, 1 W	88 dB
SPL at 4 m, Rated power	103 dB
SPL at 1 m, 1 W, Test signal bandwidth 300 Hz – 6 kHz	105 dB
SPL at 1 m, Rated power, 120 dB Test signal bandwidth 300 Hz – 6 kHz	
Dispersion at 500 Hz / 1 kHz / 2 kHz / 4 kHz, [°]	180 / 120 / 75 / 41

Physical

Physical dimensions	233 x 325 mm (Ø x L)
Net weight	2.2 kg
Colour	Grey (RAL 7035)
Material	ABS UL94V0
Mounting	Screw, U Type Bracket

Environmental

IP rating	66
Environmental type / IP Rating according to EN 54-24	B / IP33C
Min / Max Amb Temp	-25°C / +70°C

Standards & regulation

Standards	EN54-24
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Optional

For DC line monitoring	Capacitor
Colour optional	RAL Palette
Ease Model	

