

# ABT-T2435

EN 54-24

## HORN-TYPE LOUDSPEAKERS

- ✓ *Compliance with EN 54-24*
- ✓ *Certificate of Conformity issued by CNBOP:  
1438-CPR-0640*
- ✓ *Compliance with BS5839-8 standard  
(Thermal protection)*



Horn-type fire alarm ABT-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 in an anechoic chamber, resistance and integrity testing equipment, as well as chambers for resistance to weather and air humidity testing.

The ABT-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. 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.

ABT-T loudspeakers are applied on circulation routes and inside the rooms with high reverberation time as well as in widespread outdoor area broadcasting. They are perfect

for sport sites, at swimming pools, in expo and industrial halls, warehouses, open and underground car parks, and in open areas such as stadiums, parks, etc.

ABT-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 CNBOP. 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.

The individual rated power is selected by means of connection with applicable transformer branch. All the ABT-T loudspeakers are designed so as to ensure continuous operations at rated parameters for at least 100 hours (consistent with IEC-268-5 Standard).

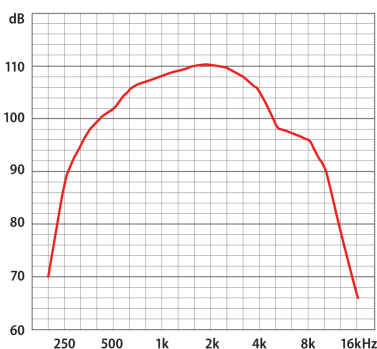
In spite of the fact our loudspeakers are designed for the highest reliability under fire conditions, they can be also used in any and all public address systems.

## CHARACTERISTICS

- » ***Directional characteristic of sound emission and the highest verbal communication understanding***
- » ***All the working environments – A, B and C***
- » ***Wall and ceiling installation***
- » ***Protection from dust and humidity: IP66 rating***
- » ***Casing made of self-extinguishing ABS UL94V0 plastic, with steel assembling jig***
- » ***100% line protection from short-circuit and break in fire conditions***

	ABT-T2435
<b>Electrical</b>	
Maximum power, W	50
Rated power, W	35
Tappings 100 V line according to EN 54-24, W	35 / 17,5 / 8,75 / 4,38
Tappings 70 V line, W	17,5 / 8,75 / 4,38 / 2,19
Transformer impedance, $\Omega$ 100V	285 / 571 / 1142 / 2284
Driver impedance, $\Omega$	8
Effective frequency range, Hz	400 – 7500
Sensitivity @ 4 m, 1 W, dB	88
SPL @ 4 m, Rated power, dB	103
SPL @ 1 m, 1 W, dB, Test signal bandwidth 300 Hz – 6 kHz	105
SPL @ 1 m, Rated power, dB, Test signal bandwidth 300 Hz – 6 kHz	120
SPL @ 1 m, Pmax, 1 kHz, peak, dB	127
Dispersion at 500 Hz / 1 kHz / 2 kHz / 4 kHz, [°]	180 / 120 / 75 / 41
<b>Environmental</b>	
Environmental type / IP Rating according to EN 54-24	B / IP33C
IP rating according to IEC 60529	66
Min / Max Amb Temp	-25°C / 70°C
<b>Mechanical</b>	
Dimensions, mm	Lenght 325, $\varnothing$ 233
Net Weight, kg	2,20
Colour	Light Grey (RAL 7035)
Material	ABS UL94V0
Mounting	Screw, U Type Bracket
<b>Option</b>	
For DC line monitoring	Capacitor
Colour optional	RAL Palette
<b>Ease Model</b>	

Frequency band:



Circular chart of directional characteristic:

