

ABT-T1510/2215/2430

EN 54-24

Horn-type Loudspeakers

- ✓ Full compliance with EN 54-24 Standards
- ✓ Certificate of Conformity issued by ITB:
ABT-T1510, ABT-T2215, ABT-T2430 –
1488-CPD-0169/W



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 employing echo-proof 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. Furthermore, they can transmit musical background. Their casings are made of ABS UL94VO, 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 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.

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 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 ABT-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 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).

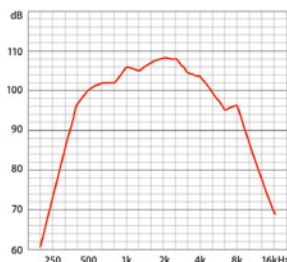
In spite of the fact our loudspeakers are designed for the highest reliability under fire conditions, they can be also used in any and all public address systems.

- › **Directional characteristic of sound emission and the highest verbal communication understanding**
- › **High efficiency:**
ABT-T1510 – 106dB/1W
ABT-T2215 – 108dB/1W
ABT-T2430 – 110dB/1W
- › **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 UL94VO 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**

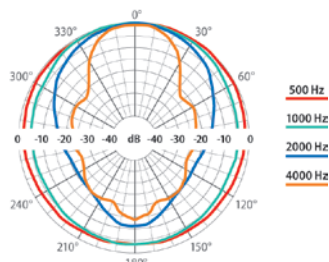
	ABT-T1510	ABT-T2215	ABT-T2430
Electrical			
Rated power, W	10	15	30
Tappings 100V line, W	10 / 5 / 2,5 / 1,25	15 / 7,5 / 3,75 / 1,87	30 / 15 / 7,5 / 3,75
Transformer Impedance, Ω 100V	1000 / 2000 / 4000 / 8000	667 / 1330 / 2770 / 5330	333 / 666 / 1330 / 2660
Driver impedance, Ω	8	8	8
Effective Frequency Range, Hz	340–9000	460–9000	400–7500
Sensitivity @ 4 m, 1 W, dB	86	87	88
SPL @ 4 m, Rated power, dB	104	108	113
SPL @ 1 m, 1 W, dB, Test Signal Bandwidth 300Hz–6 kHz	103	104	105
SPL @ 1 m, Rated power, dB, Test Signal Bandwidth 300Hz–6 kHz	113	116	120
Dispersion at 500 Hz / 1 kHz / 2 kHz / 4 kHz, [°]	240 / 200 / 88 / 45	180 / 121 / 68 / 36	180 / 120 / 75 / 41
Environmental			
Environmental type / IP Rating according to EN 54-24	B / IP33C	B / IP33C	B / IP33C
IP Rating	66	66	66
Min / Max Amb Temp	-25°C / 70°C	-25°C / 70°C	-25°C / 70°C
Mechanical			
Dimensions, mm	Lenght 236, ø156	Lenght 284, ø216	Lenght 325, ø233
Net Weight, kg	1,57	1,74	2,11
Colour	Light Grey (RAL 7035)	Light Grey (RAL 7035)	Light Grey (RAL 7035)
Material	ABS UL94V0	ABS UL94V0	ABS UL94V0
Mounting	Screw, U Type Bracket	Screw, U Type Bracket	Screw, U Type Bracket
Option			
For DC line monitoring	Capacitor	Capacitor	Capacitor
Colour optional	RAL Palette	RAL Palette	RAL Palette
Ease Model		✓	

ABT-T1510

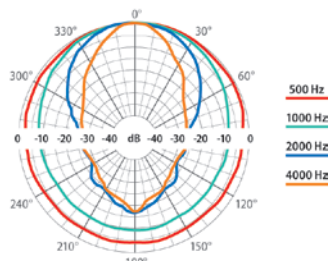
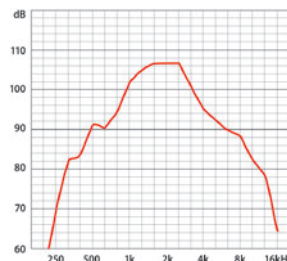
Frequency band:



Circular chart of directional characteristic:



ABT-T2215



ABT-T2430

