

# ABT-T1510/T2215/T2430/T2435

EN 54-24

## HORN-TYPE LOUSPEAKERS

- ✓ *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

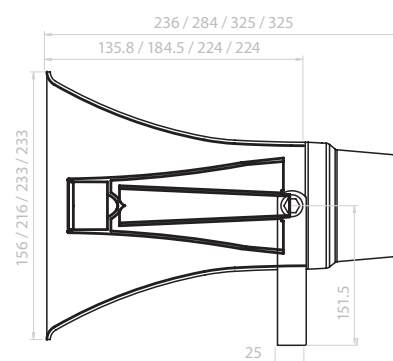
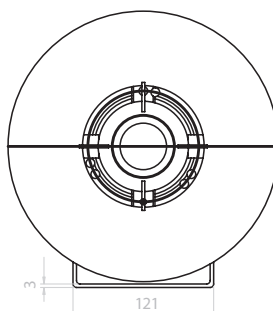
Part 8 and EN 54-24. They have been certified for product compliance and acceptance by CNBOP. Ceramic blocks, internal flame-resistant wiring, and temperature limit fuses protect the broadcasting line from short-circuits or breaks and ensure continuous operations even in case of fire-produced damages 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.

Our ABT-T loudspeaker offer comprises four power rating models, i.e. 10 W, 15 W, 30 W and 35 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.

## 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-T1510	ABT-T2215	ABT-T2430	ABT-T2435
Electrical				
Rated power, W	10	15	30	35
Tappings 100 V line according to EN 54-24, W	10 / 5 / 2,5 / 1,25	15 / 7,5 / 3,75 / 1,87	30 / 15 / 7,5 / 3,75	35 / 17,5 / 8,75 / 4,38
Tappings 70V line, W	5 / 2,5 / 1,25 / 0,62	7,5 / 3,75 / 1,87 / 0,94	15 / 7,5 / 3,75 / 1,87	17,5 / 8,75 / 4,38 / 2,19
Transformer impedance, Ω 100V	1000 / 2000 / 4000 / 8000	667 / 1330 / 2770 / 5330	333 / 666 / 1330 / 2660	285 / 571 / 1142 / 2284
Driver impedance, Ω	8	8	8	8
Effective frequency range, Hz	340–9000	460–9000	400–7500	400–7500
Sensitivity @ 4 m, 1 W, dB	86	87	88	88
SPL @ 4 m, Rated power, dB	96	100	103	103
SPL @ 1 m, 1 W, dB, Test signal bandwidth 300 Hz–6 kHz	103	104	105	105
SPL @ 1 m, Rated power, dB, Test signal bandwidth 300 Hz–6 kHz	113	116	120	120
Dispersion at 500 Hz / 1 kHz / 2 kHz / 4 kHz, [°]	240 / 200 / 88 / 45	180 / 121 / 68 / 36	180 / 120 / 75 / 41	180 / 120 / 75 / 41
Environmental				
Environmental type / IP Rating according to EN 54-24	B/IP33C			
IP Rating	66			
Min / Max Amb Temp	-25 °C / 70 °C			
Mechanical				
Dimensions, mm	Length 236, ø 156	Length 284, ø 216	Length 325, ø 233	Length 325, ø 233
Net Weight, kg	1,75	1,95	2,20	2,20
Colour	Light Grey (RAL 7035)			
Material	ABS UL94V0			
Mounting	Screw, U Type Bracket			
Option				
For DC line monitoring	Capacitor			
Colour optional	RAL Palette			
Ease Model	✓			

