

# ABT-LA30/ABT-LA60

EN 54-24

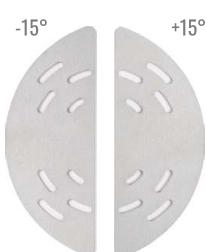
## LINE ARRAY LOUDSPEAKERS COLUMNS

- ✓ *Compliance with EN 54-24*
- ✓ *Certificate of Conformity issued by CNBOP: 1438-CPR-0574*
- ✓ *Compliance with BS5839-8 standard (thermal protection)*

ABT-LA fire-alarm loudspeakers mean a new quality among the facilities of the kind. ABT-LA30 and ABT-LA60 units are line-array loudspeaker columns, which means they ensure considerably farther reach than conventional units at simultaneous maintenance of high uniformity of sound level in the area of broadcasting. Being line-array acoustic sources, ABT-LA columns feature a unique high directionality in vertical plane so that the sound they generate will rather go exactly towards the controlled audio-space instead of unwanted areas, such as e.g. ceiling or floor. ABT-LA columns are mostly designed for the rooms with high reverberation time as well as for other places where the quality of speech is reduced due to unfavourable conditions.

The ABT-LA design allows easy mechanical and electrical integration of the two columns into a single consistent unit which becomes a loudspeaker with higher power output and farther reach. It makes a better use of the benefits offered by the line-array source. Variable geometry of the column allows generating two sound beams to be randomly sent at various angles to the two different areas. Sound transfer band of the ABT-LA columns has been designed to achieve the highest possible fidelity of speech signal reproduction and to ensure unchallenged parameters of the quality of speech, all as required by the standards applicable to the Voice Evacuation Systems.

Solid aluminium enclosure, steel assembly jigs, and IP 65 guarantee long-term failure-free operations under any conditions, both in outdoor and indoor environments. The columns are entirely dustproof and resistant to the impact of direct water jet.



Connect angle:  
 $-15^\circ \div +15^\circ$



	ABT-LA30	ABT-LA60
<b>Electrical</b>		
Maximum power, W	48	96
Rated power, W	30	60
Tappings 100 V line according to EN 54-24, W	30 / 15 / 7,5 / 3,8	60 / 30 / 15 / 7,5
Tappings 70 V line	15 / 7,5 / 3,8 / 1,9	30 / 15 / 7,5 / 3,8
Transformer impedance @ 100 V, $\Omega$	333,3 / 666,6 / 1333,3 / 2631,5	166,6 / 333,3 / 666,6 / 1333,3
Driver impedance, $\Omega$	12	6
Effective frequency range, Hz	141 – 20 000	136 – 20 000
Sensitivity @ 4 m, 1 W, dB	77	79
SPL @ 4m, rated power, dB	90	94
SPL @ 1 m, 1 W, dB, test signal bandwidth 300Hz – 6kHz*	93	95
SPL @ 1 m, rated power, dB, test signal bandwidth 300Hz – 6kHz*	105	109
Horizontal dispersion at 500 Hz / 1 kHz / 2 kHz / 4 kHz, [°]	360 / 220 / 185 / 120	360 / 215 / 185 / 115
Vertical dispersion at 500 Hz / 1 kHz / 2 kHz / 4 kHz, [°]	250 / 75 / 35 / 15	95 / 35 / 15 / 5
<b>Environmental</b>		
Environmental type / IP rating according to EN 54-24	B / IP33C	B / IP33C
IP rating**	65	65
Min./max. ambient temperature	-25°C / 70°C	-25°C / 70°C
<b>Mechanical</b>		
Dimensions H × W × D, mm	510 × 80 × 110	870 × 80 × 110
Net weight, kg	3,1	4,9
Colour	Silver (RAL 9006)	Silver (RAL 9006)
Enclosure material	Aluminium	Aluminium
<b>Option</b>		
For DC line monitoring	Capacitor	Capacitor
Colour optional	RAL palette	RAL palette
<b>Ease Model</b>	✓	✓

\* calculated from line-array far field measurement at 8 m

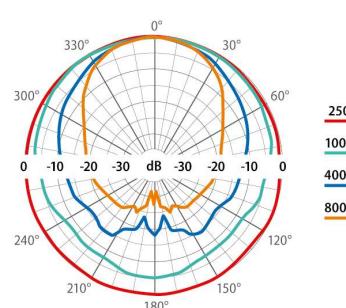
\*\* parameters not confirmed by CNBOP-PB

## ABT-LA30

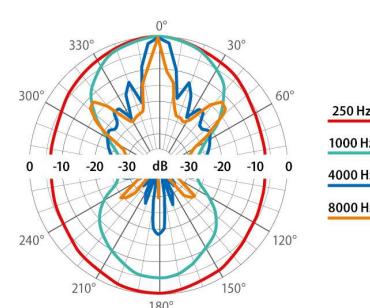
Frequency band:



Circular chart of directional characteristic – horizontal:



Circular chart of directional characteristic – vertical:

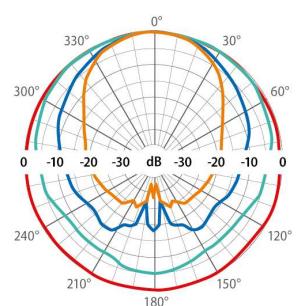


## ABT-LA60

Frequency band:



Circular chart of directional characteristic – horizontal:



Circular chart of directional characteristic – vertical:

