

# CEILING-MOUNTED LOUDSPEAKER BBR-ABT-S2010/ABT-S2710

## AutoVoice Product Datasheet

### Features

- Compliance with EN 54-24
- Certificate of Conformity: 1438-CPR-0170/W
- Compliance with BS5839-8 standard (thermal protection)
- High efficiency
- High acoustic pressure level
- Exceptionally reliable full band music reproduction
- The highest level of speech intelligibility
- Elegant looks
- 10 W transformer allowing precise selection of loudspeaker output power
- 100% protection of line from breaks and short-circuits

### Product overview

Ceiling mounted fire alarm BBR-ABT-S2010 and ABT-S2710 loudspeakers are designed for operations at high acoustic levels and the highest reduction in power supply. Actual wide band high efficiency ensures the best understanding of verbal messages. Their parameters have been carefully selected to comply with false ceiling applications, both at standard and considerably elevated ceiling-to-floor distance.

Thanks to the most advanced technologies the ABT-S series loudspeakers combine excellent acoustic parameters and high aesthetics with resistance to mechanical damages and varying weather conditions. They are distinguished by easy and quick installation.

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 need to maintain the best acoustic parameters, even with easily installed fire-protecting screens, was the idea underlying the design process. The ABT-S series loudspeakers ensure a balanced sound which is extremely important in emission of highly understandable speech and reliable music reproduction.

BBR-ABT-S2010



ABT-S2710



The series of ceiling-mounted ABT-S loudspeakers is noticeable thanks to its elegant looks. The loudspeaker part which becomes visible after the installation is protected by means of electroplating and covered by a common and aesthetic white paint coat (RAL 9003) – optionally available other colours (RAL palette).

The entire ABT-S series is equipped with a standardized fire dome made of soft steel and supplied with two cable penetrations with rubber glands. Special jig for sling assembling facilitates quick installation. The delivery comprises the 1-metre long sling. Two ceramic blocks and fireproof wiring coupled with temperature limit fuse are located under the screen. This solution ensures 100% protection of the sound-transmitting line from any break or short-circuits which may be produced as a result of loudspeaker burn. The individual power rating is selected by means of connection with applicable transformer branch.

ABT-S series loudspeakers equipped with fire dome and thermal protections entirely comply with EN 54-24 Standards. In order to ensure 100% consistency with the highest quality standards we test our loudspeakers following the most meticulous procedures that warrant high parameters of sound emission, safety, and reliability.

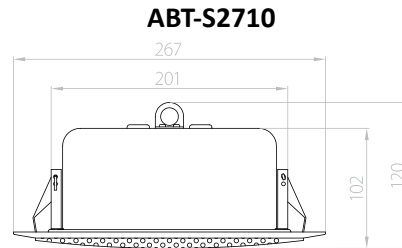
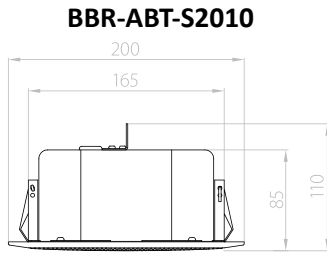
In spite of the fact our loudspeakers are designed for the highest reliability under fire conditions, their acoustic parameters and attractive low prices make them successful in any and all public address systems.

## Technical specification

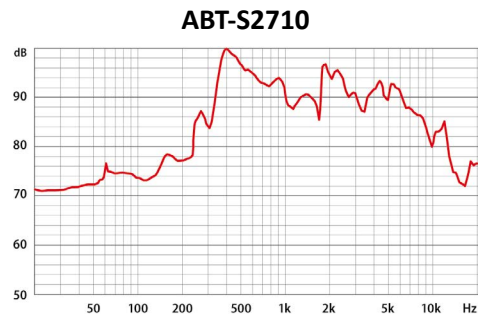
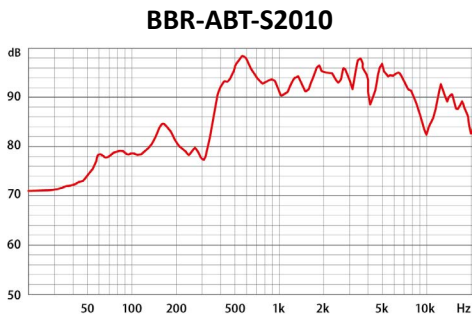
	BBR-ABT-S2010	ABT-S2710
<b>Electrical</b>		
Rated power, W	10	10
Tappings 100 V line according to EN 54-24, W	10 / 5 / 2,5 / 1,25	10 / 5 / 2,5 / 1,25
Tappings 70 V line, W	5 / 2,5 / 1,25 / 0,625	5 / 2,5 / 1,25 / 0,625
Transformer impedance @ 100 V, $\Omega$	1000 / 2000 / 4000 / 8000	1000 / 2000 / 4000 / 8000
Driver impedance, $\Omega$	8	8
Effective frequency range, Hz	150 – 20000	100 – 20000
Sensitivity @ 4 m, 1 W, dB	77	78
SPL @ 4 m, rated power, dB	90	92
SPL @ 1 m, 1 W, dB, test signal bandwidth 300 Hz – 6 kHz	94	95
SPL @ 1 m, rated power, dB, test signal bandwidth 300 Hz – 6 kHz	104	105
Dispersion at 500 Hz / 1 kHz / 2 kHz / 4 kHz, [°]	180 / 170 / 115 / 55	180 / 170 / 90 / 60
<b>Environmental</b>		
Environmental type / IP rating according to EN 54-24	A / IP21C	A / IP21C
IP rating	32	32
Min. / max. ambient temperature	-10°C / 55°C	-10°C / 55°C
<b>Mechanical</b>		
Dimensions, mm	Height 110, $\varnothing$ 200	Height 120, $\varnothing$ 267
Net weight, kg	1,4	1,75
Colour	White (RAL 9003)	
Material	Steel	
Mounting	Spring clamp	
Cut-out, mm	$\varnothing$ 172	$\varnothing$ 222
<b>Option</b>		
For DC line monitoring	Capacitor (ABT-SW176C)	
Colour optional	RAL palette	
Ease Model	✓	

Product name	Part number	Description
BBR-ABT-S2010	116-BBR-ABT-S2010	Ceiling-mounted loudspeaker 20 cm, 10 W
ABT-S2710	116-ABT-S2710	Ceiling-mounted loudspeaker 26.7 cm, 10 W

### Dimension drawings (mm)



### Frequency band



### Circular chart of directional characteristic

