WP-/WPA-Series

WP1-Series   WP2-Series   WPA-Series

WP-Series (passive)

Models WP1-CRND Series (1 Chassis per):
WP1101-CRND, WP1122CRND, WP1152-CRND, HP: WP1122-CRHP, WP1152-CRHP

Models WP2-CRND Series (2 Chassis per):
WP2101-CRND, WP2122CRND, WP2152-CRND, HP: WP2122-CRHP, WP2152-CRHP

Models WP1-BRND Series (1 Chassis per): WP1120CRND, WP1150-CRND

Models WP2-BRND Series (2 Chassis per): WP2120CRND, WP2150-CRND

The **WP-Series** weatherproof loudspeakers are designed as Full-Range (CRND) and Low-Frequency (BRND) for constantly outdoor application. The 12" and 15" types are available as High Power Versions (CRHP). Due the usage of GRP materials and the application of new designed speaker chassis with neodymium magnets, the loudspeakers of the **WP-Series** are featuring surpassed stability besides a very light system weight at the same time. Due to a special laminating procedure the surfaces, available in nearby all RAL color shades, are absolutely weatherproof and light resistant. Due to the very rigid cabinet and the high tech coaxial systems, used in the full range loudspeakers, which are granting the best audio reproduction of all sounds and a very and intelligible speech reproduction.

All cone drivers of the **WP-Series** are impregnated in a diving process, the front covers are durable impregnated with last design Nano-Technology Materials to avoid that humidity is entering the cabinet generally. All metal parts of the cabinet are made of stainless steel.

By the means of a special connection principle with IP67 classified cable fittings, it is ensured that the connections are safe and absolutely free of oxidation. The cable-loop to the next loudspeaker is easy to realize, thanks to a second cable connection, which is provided.

The powder coated aluminum bracket allows a fast and safe installation and variable alignment of the systems, which could be therefore integrated easily in already existing edificial situations. The factory-made safety-eye at the cabinet makes it easy to secures the system against dropping down, according to the valid regulations.

Models WPA1-CRND Series (self powered, 1 Chassis per):
WPA1101-CRND, WPA1122CRND, WPA1152-CRND

Models WPA2-CRND Series (self powered, 2 Chassis per):
WPA2101-CRND, WPA2122CRND, WPA2152-CRND

Models WPA1-BRND Series (self powered, 1 Chassis per): WP1120BRND, WP1150-BRND

Models WPA2-BRND Series (self powered, 2 Chassis per): WP2120BRND, WP2150-BRND

The **WPA-Series** self powered weatherproof loudspeakers are designed as Full-Range (CRND) and Low-Frequency (BRND) for constantly outdoor application. The advantages of the WP-Series speakers are supplemented by a implemented digital signal processing and high efficient Class-D power amplifiers. The **WPA-Series** loudspeakers are featuring a remote manageable tone and volume control. By the means of an active frequency control network, the regarding drivers are processor-controlled and powered by independent digital power stages to gain a perfect and clear reproduction of the whole frequency range.

Due to the use of latest Class-D amplifier technology the loudspeakers of the **WPA-Series** are offering very high output power levels without needing an external heat sink or cabinet fans. So it is secured that no dust, dirt or humidity can enter the cabinet or block and choke the external heat sink. The surface of the cabinet remains without disturbing and dirt-collecting structures and is easy and safely to maintain and to clean though. By the means of a special connection principle with IP67 classified cable fittings, it is ensured that the connections are safe and absolutely free of oxidation. The cable-loop to the next loudspeaker, for power, signal and control, is easy to realize, thanks to the second cable connection, which is provided.

The adjustment and read out of the loudspeaker parameters is effected with the remote unit via a industrial standard data bus. This technology allows the safe connection and control of loudspeakers in far distances. Practically endless numbers of loudspeakers, as well different types of the **WPA-Series**, can be hooked up and addressed in the same time. The specific loudspeaker in a large installation with many units, can be identified by the means of a targeted acoustical and visual signal at the demanded loudspeaker. After adjusting respectively reading out of the corresponding parameters, the remote unit can be disconnected and stored safely.

Application:
The Models **WP-Series** weatherproof loudspeakers are designed for constantly outdoor application, for example in Theme Parks, museums, open-air restaurants, stadiums and public squares and installations. Due to the use of high quality systems and the broad variety of models, it is easy to solve all possible audio-challenges in the professional field. Thanks to the wide scope for colors and shape, the loudspeakers are easy to integrate in different existing circumstances. In new projects nearby all designs could be realized due to the possibility in color and shape. The nicely developed user software of the remote unit, allows to identify and control units even at remote and difficult to reach positions.

All technical specifications are subjected to be changed without prior notice!
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Technical Data

Mode	WP1081-CRND WP2081-CRND	WP1101-CRND WP2101-CRND	WP1122-CRND/HP WP2122-CRND/HP	WP1152-CRND/HP WP2152-CRND/HP
Frequency Range (-3dB)	67 Hz-21 kHz 65 Hz-21 kHz	60 Hz-21 kHz 58 Hz-21 kHz	65 Hz-20 kHz 62 Hz-20 kHz	55 Hz-18 kHz 53 Hz-18 kHz
Angle (HxV -6dB /-10dB)	90°x90° / 120°x120° 90°x90° / 120°x120°	90°x90° / 120°x120° 90°x90° / 120°x120°	80°x80° / 100°x100° 80°x80° / 100°x100°	80°x80° / 100°x100° 80°x80° / 100°x100°
Power Handling	200 W AES 400 W AES	300 W AES 600 W AES	350 W AES / 600 W AES 700 W AES / 1200 W AES	400 W AES / 800 W AES 800 W AES / 1600 W AES
Sensitivity (1W/1m)	97 dB 100 dB	99 dB 102 dB	100 dB 103 dB	101 dB 104 dB
Nominal Impedance	TT:8Ω HT: 16Ω TT:4Ω HT: 8Ω	TT:8Ω HT: 16Ω TT:4Ω HT: 8Ω	TT:8Ω HT: 16Ω TT:4Ω HT: 8Ω	TT:8Ω HT: 16Ω TT:4Ω HT: 8Ω
Low-Midrange Cone Driver	200 mm 8" 2x 200 mm 8"	250 mm 10" 2x 250 mm 10"	300 mm 12" 2x 300 mm 12"	380 mm 15" 2x 380 mm 15"
HF Driver / HF Horn	25 mm 1" Horn 2x 25 mm 1" Horn	25 mm 1" Horn 2x 25 mm 1" Horn	50 mm 2" Horn 2x 50 mm 2" Horn	50 mm 2" Horn 2x 50 mm 2" Horn
Connectors (Cable In/Outlet)	Crimp/2x Fitting M25 Crimp/2x Fitting M25	Crimp/2x Fitting M25 Crimp/2x Fitting M25	Crimp/2x Fitting M25 Crimp/2x Fitting M25	Crimp/2x Fitting M25 Crimp/2x Fitting M25
Dimensions (H_1/H_2 xWxD /mm) (H_1= w/out, H_2 = with Mount)	250/320x300x250 250/320x550x250	300/370x350x300 300/370x650x300	350/420x400x350 350/420x750x350	450/520x500x450 450/520x950x450
Dimensions (H_1/H_2 xWxD /inch) (H_1= w/out, H_2 = with Mount)	9.9/12.6x11.8x9.9 9.9/12.6x21.7x9.9	11.8/14.6x13.8x11.8 11.8/14.6x25.6x11.8	13.8/16.6x15.8x13.8 13.8/16.6x29.6x13.8	17.8/20.5x19.7x17.8 17.8/20.5x37.5x17.8
Net Weight	12 kg / 22 lbs 22 kg / 48,4 lbs	17 kg / 37,4 lbs 32 kg / 70,4 lbs	20 kg / 44 lbs 38 kg / 84 lbs	23 kg / 51 lbs 44 kg / 97 lbs

Additional Tec. Data Self Powered Models	WPA1081-CRND WPA2081-CRND	WPA1101-CRND WPA2101-CRND	WPA1122-CRND WPA2122-CRND	WPA1152-CRND WPA2152-CRND
Remote Interface	yes	yes	yes	yes
Adjustment Range Volume	0 - 100%	0 - 100%	0 - 100%	0 - 100%
Adjustment Range HF	-18 - +12 dB	-18 - +12 dB	-18 - +12 dB	-18 - +12 dB
Adjustment Range LF	-18 - +6 dB	-18 - +6 dB	-18 - +6 dB	-18 - +6 dB
Muting	yes	yes	yes	yes
System Power	200 W RMS	200 W RMS	500 W RMS	800 W RMS
Power HF Amplifier	- (Passive Weiche)	- (Passive Weiche)	100 W RMS	100 W RMS
Power LF Amplifier / Full Range	200W RMS	200W RMS	400 W RMS	700 W RMS
Temperature Control and Display	yes	yes	yes	yes
Loudspeaker Addressability	yes	yes	yes	yes
Password Access	yes	yes	yes	yes
Audio-Visual Loudspeaker Identification	yes	yes	yes	yes
Net Weight	14,4 kg / 31,7 lbs 27,4 kg / 60 lbs	20,4 kg / 45 lbs 38,7 kg / 85 lbs	24kg / 53 lbs 54,6 kg / 100 lbs	27,6 kg / 61 lbs 52,4 kg / 116 lbs

Technical Data

Model	WP1120-BRND	WP1150-BRND	WP2120-BRND	WP2150-BRND
Frequency Range (-3dB)	50 Hz-2.000 Hz	47 Hz-1.500 Hz	48 Hz-2.000 Hz	45 Hz-1.500 Hz
Power Handling (RMS)	700 W AES	800 W AES	1.400 W AES	1.600 W AES
Sensitivity (1W/1m)	100 dB	100 dB	103 dB	103 dB
Nominal Impedance	8œ	8œ	4œ	4œ
LF Cone Driver	300 mm 12"	380 mm 15"	2x 300 mm 12"	2x 380 mm 15"
Connectors (Cable In / Outlet)	Crimp/2x Fitting M25	Crimp/2x Fitting M25	Crimp/2x Fitting M25	Crimp/2x Fitting M25
Dimensions (H1/H2 xBxT /mm) (H1= without, H2 = withMount)	350/420x400x350	450/520x500x450	350/420x750x350	450/520x950x450
Dimensions (H1/H2 xBxT / inch) (H1= without, H2 = with Mount)	13.8/16.6x15.8x13.8	17.8/20.5x19.7x17.8	13.8/16.6x29.6x13.8	17.8/20.5x37.5x17.8
Net Weight	14,0 kg / 30.8 lbs	19,3 kg / 42.5 lbs	26,6 kg / 58.5 lbs	36,7 kg / 80.7 lbs

Additional Tec. Data Self Powered Models	WPA1120-BRND	WPA1150-BRND	WPA2120-BRND	WPA2150-BRND
IRemote Interface	yes	yes	yes	yes
Adjustment Range Volume	0 - 100%	0 - 100%	0 - 100%	0 - 100%
Adjustment Range LF	-18 - +6 dB	-18 - +6 dB	-18 - +6 dB	-18 - +6 dB
Muting	yes	yes	yes	yes
System Power	700 W RMS	800 W RMS	1.400 W RMS	1.600 W RMS
Amplifier Power	700W RMS	700W RMS	1.200 W RMS	1.200 W RMS
Temperature Control and Display	yes	yes	yes	yes
Loudspeaker Addressability	yes	yes	yes	yes
Password Access	yes	yes	yes	yes
Audio-Visual Loudspeaker Identification	yes	yes	yes	yes
Net Weight	16,8 kg / 37.0 lbs	23,2 kg / 51,0 lbs	31,9 kg / 70.2 lbs	44,0 kg / 97.0 lbs