

WX_{MK2} series

User & Installation

Manual



www.audac.eu

Introduction

Universal wall speaker

The WX series are 2–way performance speakers suited for a wide variety of applications, delivering true to nature, high fidelity reproductions of music and speech.

They feature a stunningly designed and elegant looking ABS housing which is fitted with high quality components. The speaker is available in three sizes, 3", 5 1/4" and 8". All speakers are available in black and white, making them blend into every environment, going from standard indoor home to special indoor design interior.

For optimal orientation, an included mounting bracket allows for horizontal or vertical mounting as well as focusing of the speaker in the desired direction. Thanks to a built–in line transformer, they can be used in both 70V/100V or low impedance applications.

Precautions

READ FOLLOWING INSTRUCTIONS FOR YOUR OWN SAFETY

- ALWAYS KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE. NEVER THROW THEM AWAY
- ALWAYS HANDLE THIS UNIT WITH CARE
- CLEAN ONLY WITH DRY CLOTH
- HEED ALL WARNINGS AND FOLLOW ALL INSTRUCTIONS
- NEVER EXPOSE THIS EQUIPMENT TO RAIN, MOISTURE, ANY DRIPPING OR SPLASHING LIQUID. AND NEVER PLACE AN OBJECT FILLED WITH LIQUID ON TOP OF THIS DEVICE
- DO NOT INSTALL THIS UNIT NEAR ANY HEAT SOURCES SUCH AS RADIATORS OR OTHER APPARATUS THAT PRODUCE HEAT
- DO NOT PLACE THIS UNIT IN ENVIRONMENTS WITH A HIGH LEVEL OF DUST, HEAT, MOISTURE OR VIBRATION
- THIS UNIT IS DEVELOPED FOR INDOOR USE ONLY. DO NOT USE IT OUTDOORS
- ONLY USE ATTACHMENTS & ACCESSORIES SPECIFIED BY THE MANUFACTURER.
- ONLY INSTALL THE SPEAKER IN LOCATIONS THAT CAN STRUCTURALLY SUPPORT THE WEIGHT OF THE SPEAKER. IGNORING THIS CAN BRING THE SPEAKER DOWN.
- DO NOT USE ANY OTHER METHOD THAN SPECIFIED TO MOUNT THE SPEAKER. IF EXTREME FORCE IS APPLIED TO THE SPEAKER, IT COULD FALL DOWN
- ATTACH A SAFETY WIRE TO THE SPEAKER WHEN IT IS MOUNTED HIGH UP. ONLY USE INDUSTRY–ACCEPTED RIGGING TOOLS AND METHODS
- CAREFULLY CHECK THE UNIT’S CONDITION AFTER UNPACKING. IF THERE IS ANY DAMAGE TO THE CARTON BOX OR THE UNIT ITSELF, INFORM YOUR VENDOR IMMEDIATELY.
- ALWAYS FOLLOW THE LOCAL REGULATIONS AND REQUIREMENTS REGARDING INSTALLATION, SUSPENSION AND CONNECTION OF THIS LOUDSPEAKER. EVEN WHEN OTHERWISE SPECIFIED IN THIS DOCUMENT.
- THE INSTALLATION OF THIS LOUDSPEAKER SHALL BE DONE BY QUALIFIED PERSONNEL ONLY.

CAUTION

- USE CABLES OF THE RIGHT GAUGE TO CONNECT THE LOUDSPEAKER
- USE CABLES WITH CLEAR COLOR CODING INDICATING THE POLARITY AND MAINTAIN THE SAME POLARITY THROUGHOUT THE WHOLE SYSTEM.
- ONLY USE THE CORRECT AMPLIFIER OUTPUT VOLTAGE AND IMPEDANCE. EXCEEDING THESE LIMITS COULD CAUSE FIRE OR OTHER FAILURES.
AVOID EXPLOSIONS: DO NOT USE THE SPEAKER AROUND GASOLINE, THINNER OR OTHER COMBUSTIBLES
- AVOID ELECTRIC SHOCKS: SWITCH OFF THE AMPLIFIER WHEN CONNECTING THE LOUDSPEAKER
- DO NOT USE THE LOUDSPEAKER FOR AN EXTENDED PERIOD OF TIME AT DISTORTED SOUND. THIS COULD CAUSE PERMANENT DAMAGE.



CAUTION – SERVICING

This product contains no user serviceable parts. Refer all servicing to qualified service personnel. Do not perform any servicing (unless you are qualified to do so.)



EC DECLARATION OF CONFORMITY

This product conforms to all the essential requirements and further relevant specifications described in following directives: 2014/30/EU (EMC) and 2014/35/EU (LVD)



WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE)

The WEEE marking indicates that this product should not be disposed with regular household waste at the end of its product life. This regulation is created to protect both the environment and human health.

This product is developed and manufactured with high quality materials and components which can be recycled and/or reused. Please dispose this product to your local collection point or recycling centre for electrical and electronic waste. This will make to sure that it will be recycled on an environmentally friendly manner, and will help to protect the environment in which we all live.

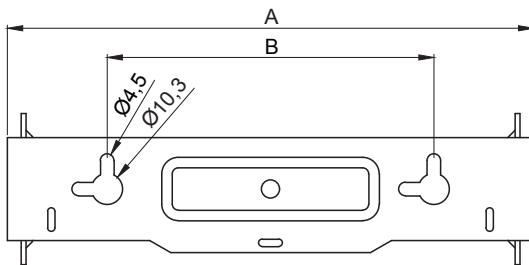
Installing the WXMK2

Mounting the speaker

The loudspeaker can be mounted both horizontally and vertically through the supplied mounting bracket. For mounting the loudspeaker on the desired mounting location, the mounting bracket should be removed from the loudspeaker, which is done through loosening the thumbscrews on either side of the loudspeaker. After this is done, the bracket can be taken apart from the loudspeaker.

For a stable mounting of the loudspeaker it should always be fastened by two screws. The position of the mounting holes depends on the mounting orientation, horizontally or vertically. The fixation points of the bracket should be marked on the desired location and the bracket can get mounted. The type of used fasteners shall be chosen according to the most suitable type for the mounting surface (brick, concrete, wood, ...).

The bracket dimensions and mounting hole positions are indicated in the below drawing and table for the various sizes of speakers.

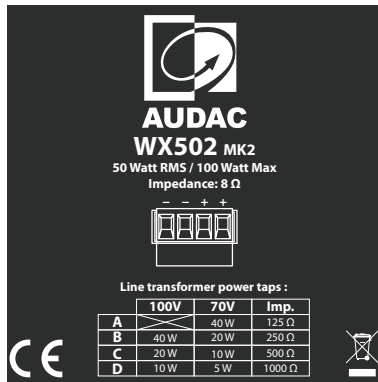


Model	Dimension A	Dimension B
WX302MK2	174 mm	108 mm
WX502MK2	219 mm	160.4 mm
WX802MK2	358 mm	248 mm

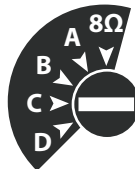
Once the bracket is mounted onto the desired position, the speaker can be re-assembled to the bracket by inserting and tightening both thumb screws on either side of the speaker. The speaker can be tilted in various steps of inclination into the desired listening direction.

Connecting the speaker

For connecting the WX series speakers, the wires coming from the amplifier shall be connected to the 4-pin terminal block connector on the rear of the speaker. Each connection terminal is implemented twice, allowing direct link-through to other loudspeakers on the same line. The polarity of the connector is indicated on the label which is attached to the rear side of the loudspeaker, and displayed in the below drawing.



The selection of the power tapping and whether the speaker will be used in a low impedance (8Ω/16Ω) or a constant voltage (70V/100V) system, the power taps can be adjusted in 4 steps of impedance through a rotary selector switch on the rear side of the unit. The switch can be rotated in 4 positions A, B, C & D. Each position corresponds with a specific impedance / power setting indicated on a label attached to the speaker, and in the table below.



Tapping	WX302			WX502			WX802		
	100V	70V	Imp.	100V	70V	Imp.	100V	70V	Imp.
A	DO NOT USE	20 W	250 Ω	DO NOT USE	40 W	125 Ω	DO NOT USE	60 W	83 Ω
B	20 W	10 W	500 Ω	40 W	20 W	250 Ω	60 W	30 W	167 Ω
C	10 W	5 W	1000 Ω	20 W	10 W	500 Ω	30 W	15 W	333 Ω
D	5 W	2.5 W	2000 Ω	10 W	5 W	1000 Ω	15 W	7.5 W	667 Ω

Additional Information

Technical specifications

	WX302	WX502
Max Power	60 Watt	100 Watt
RMS Power	30 Watt	50 Watt
Nominal impedance	8 Ω	8 Ω
Line transformer taps	250 Ω – 70V/20W 500 Ω – 100V/20W – 70V/10W 1k Ω – 100V/10W – 70V/5W 2k Ω – 100V/5W – 70V/2.5W	125 Ω – 70V/40W 250 Ω – 100V/40W – 70V/20W 500 Ω – 100V/20W – 70V/10W 1k Ω – 100V/10W – 70V/5W
Sensitivity (1W/1m)	85 dB	87 dB
Sound pressure (Max W/1m) @ 8 Ohm	100 dB	104 dB
Sound pressure (Max W/1m) @ 100 V	95 dB	102 dB
Frequency response (± 3 dB)	90 Hz – 18 kHz	70 Hz – 18 kHz
Frequency range (–10 dB)	60 Hz – 20 kHz	55 Hz – 20 kHz
Dispersion	Horizontal 100° Vertical 100°	110° 110°
Drivers	1" HF + 3" LF	1" HF + 5 1/4" LF
Cross-over network	Passive built-in (2.5 kHz)	Passive built-in (2.5 kHz)
Connectors	4-pin Terminal block (5.08 mm)	4-pin Terminal block (5.08 mm)
Mounting bracket	Powder coated steel	Powder coated steel
Construction	ABS enclosure	ABS enclosure
Front finish	Fine perforated steel grill	Fine perforated steel grill
Ingress protection	IP4x	IP4x
Operation temperature range	–25°C to +70°C	–25°C to +70°C
Incline angle	0 ~ 90° left & right	0 ~ 90° left & right
Colour	White WX302MK2/W (RAL9003) Black WX302MK2/B (RAL9005)	White WX502MK2/W (RAL9003) Black WX502MK2/B (RAL9005)
Dimensions (W x H x D)	199 x 129 x 120 mm	212 x 147 x 136 mm
Weight	1.66 Kg	2.75 Kg
Packaging	Carton box (pair)	Carton box (pair)
Shipping weight & Volume	3.64 Kg – 0.014 Cbm	5.5 Kg – 0.018 Cbm
Accessories included	4-pin terminal block connector Mounting bracket	4-pin terminal block connector Mounting bracket

		WX802
Max Power		140 Watt
RMS Power		70 Watt
Nominal impedance		16 Ω
Line transformer taps		83 Ω – 70V/60W 167 Ω – 100V/60W – 70V/30W 333 Ω – 100V/30W – 70V/15W 667 Ω – 100V/15W – 70V/7.5W
Sensitivity (1W/1m)		89 dB
Sound pressure (Max W/1m) @ 8 0hm		108 dB
Sound pressure (Max W/1m) @ 100 V		106 dB
Frequency response (\pm 3 dB)		60 Hz – 17 kHz
Frequency range (-10 dB)		50 Hz – 20 kHz
Dispersion	Horizontal	110°
	Vertical	110°
Drivers		1" HF + 8" LF
Cross-over network		Passive built-in (2.4 kHz)
Connectors		4-pin Terminal block (5.08 mm)
Mounting bracket		Powder coated steel
Construction		ABS enclosure
Front finish		Fine perforated steel grill
Ingress protection		IP4x
Operation temperature range		-25°C to $+70^{\circ}\text{C}$
Incline angle		0 ~ 90° left & right
Colour	White	WX802MK2/W (RAL9003)
	Black	WX802MK2/B (RAL9005)
Dimensions (W x H x D)		270 x 360 x 215 mm
Weight		7.5 Kg
Packaging		Carton box (pair)
Shipping weight & Volume		15.2 Kg – 0.064 Cbm
Accessories included		4-pin terminal block connector Mounting bracket

