



# WX502\_O

Outdoor universal wall speaker 5 1/4"

## Highlights:

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- 1" Dome tweeter
- 5 1/4" Low frequency loudspeaker
- Vertical and horizontal mounting
- Aluminum grill
- Aluminum mounting bracket (MK2 version)
- AWX5™ waterproof connector
- Multi-tapping 70V / 100V line transformer

The WX502/O is a powerful 2-way performance speaker which is specially designed for outdoor use, ensuring true-to-nature, high fidelity reproduction of music and speech. It is fitted with a 1" dome tweeter and a 5 1/4" low-frequency loudspeaker, capable of delivering a power of 50 Watt. It can be used in standard 8 Ohm systems but also in 70/100V PA systems with power taps for 40 Watt, 20 Watt and 10 Watt.

The material used for the mounting bracket on the outdoor versions has been improved by using aluminum, making the WX series MK2 even more resistant to extreme weather conditions. The bracket allows users to mount the WX502/O vertically as well as horizontally.

Special treatment with powder coating provides the necessary protection for all weather conditions. Because of this, the brackets can pass the 96 hours salt-spray test. A drain hole behind the aluminum grill allows water to flow out and the rotatable 5 pole waterproof connector with power tap selection makes sure that the speaker meets the IP55 standard. The included mounting bracket allows horizontal and vertical mounting as well as focusing of the speaker, and an integrated advanced protection network protects the tweeter against overload.

## Applications:

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- Corporate
- Retail
- Museums & Themeparks
- Sporting facilities
- Bars & Restaurants



## Certification:

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## Properties:

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## Impedance:

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## Voltage:

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## System specifications:

|                            |                        |   |
|----------------------------|------------------------|---|
| Connectors                 |                        | Waterproof AWX-5 connector                    |
| Crossover                  | Frequency              | 2.5 kHz                                       |
|                            | Type                   | Passive built-in                              |
| Drivers                    | HF                     | 1"  |
|                            | LF                     | 5"  |
| Frequency                  | Range (-10 dB)         | 55 Hz - 20 kHz                                |
|                            | Response ( $\pm 3$ dB) | 70 Hz - 18 kHz                                |
| Impedance                  |                        | 8 $\Omega$                                    |
| Ingress Protection rating  |                        | IP55  |
| Peak power handling        |                        | 200 W   |
| Program power handling     |                        | 100 W   |
| Sensitivity (1W/1m)        |                        | 87 dB   |
| Sound Pressure (Max. W/1m) | @ 100 V                | 102 dB  |
|                            | @ 8 $\Omega$           | 104 dB  |
| Speaker type               |                        | 2-way   |
| Dispersion                 | Horizontal             | 110°  |
| RMS/AES power handling     |                        | 50 W  |
| Dispersion                 | Vertical               | 110°  |
| Line Transformer Tappings  | 1                      | 125 $\Omega$ - 100 V / Not used - 70 V / 40 W |
|                            | 2                      | 250 $\Omega$ - 100 V / 40 W - 70 V / 20 W     |
|                            | 3                      | 500 $\Omega$ - 100 V / 20 W - 70 V / 10 W     |

## Product Features:

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|                       |                                |                                      |
|-----------------------|--------------------------------|--------------------------------------|
| Dimensions            | 212 x 147 x 136 mm (W x H x D) |                                      |
| Weight                | 2.540 kg                       |                                      |
| Operating temperature | -25 °C ~ 70 °C                 |                                      |
| Construction          | ABS                            |                                      |
| Mounting & handling   | Mounting bracket               |                                      |
| Front finish          | Aluminium grill                |                                      |
| Colours               | Black (RAL9005) (WX502MK2/OB)  |                                      |
|                       | White (RAL9003) (WX502MK2/OW)  |                                      |
| Accessories           | Included                       | Mounting bracket                     |
|                       |                                | 5-pin connection cable (70 cm) AWC07 |
|                       | Optional                       | AU570120005 - 5-pin cable 0.5 m      |
|                       |                                | AU570120025 - 5-pin cable 2.5 m      |
|                       |                                | AU570120050 - 5-pin cable 5 m        |

## Variants:

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- WX502MK2/OB - Outdoor black version
- WX502MK2/OW - Outdoor white version

## Shipping & Ordering:

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|                          |                               |
|--------------------------|-------------------------------|
| Packaging                | Cardboard box                 |
| Shipping weight & volume | 5.800 kg - 0.0185 Cbm (2 pcs) |

## Architects' and Engineers' Specifications:

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The loudspeaker must be a surface-mount 2-way type, consisting of a 5" woofer and 1" tweeter which are built in an ABS enclosure with a finely perforated aluminum front grill with drain hole. It must be fitted with a line transformer, allowing its use on both low impedance (8 Ohm) and 70/100 V distributed lines. It must be vertically and horizontally mountable using the electroplated mounting bracket supplied.

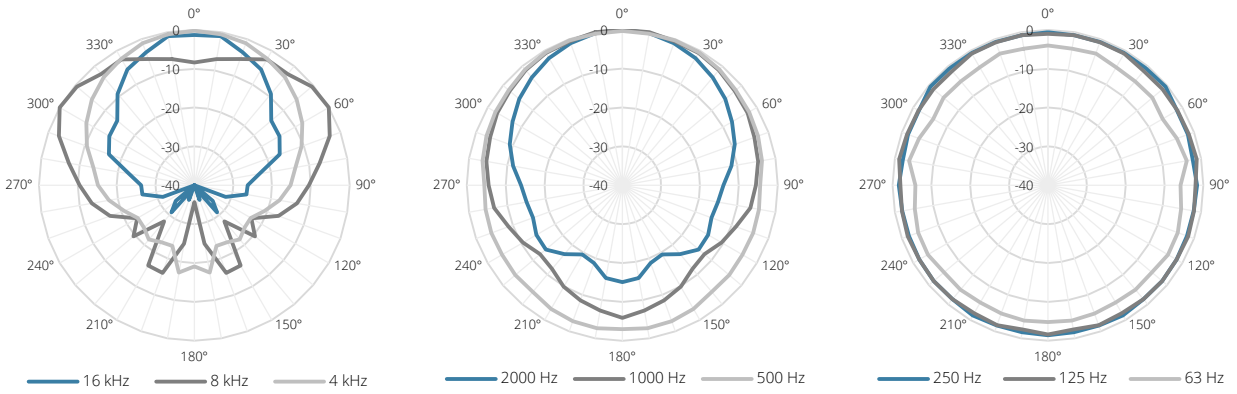
It must have an RMS power handling of 50 Watt with a maximum power handling of 100 Watt and the frequency response ( $\pm 3$  dB) must range from 70 Hz to 18 kHz. The sensitivity must be 87 dB when measuring with an input signal of 1 Watt at a distance of 1 meter, while the maximum continuous sound pressure level must be 104 dB.

The loudspeaker must have an impedance of 8 Ohm, a 70/100 V line transformer and a passive built-in crossover network with crossover frequency of 2.5 kHz. The enclosure must comply to IEC60529 IP55 ratings for dust and splash resistance and must feature a waterproof AWX-5 connector allowing transformer tapping selection for 40 Watt, 20 Watt and 10 Watt or the 8 Ohm bypass. The speaker must have a horizontal and vertical dispersion of 110°.

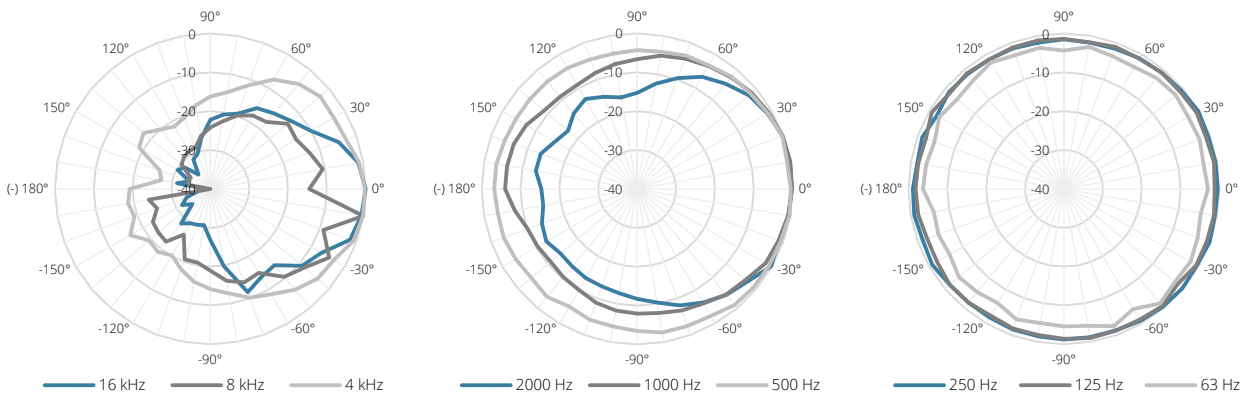
The loudspeaker enclosure must be 147 mm high, 212 mm wide and 136 mm deep and the weight must not exceed 2.55 kg. The loudspeaker's color must be RAL 9010, 9005 or 9006.

# Acoustical data graphs:

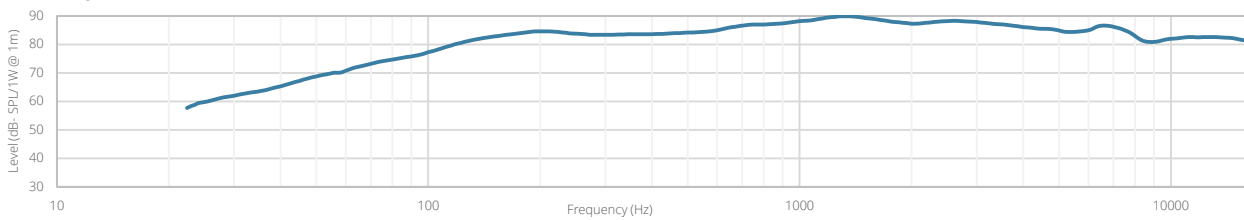
## Horizontal Polars:



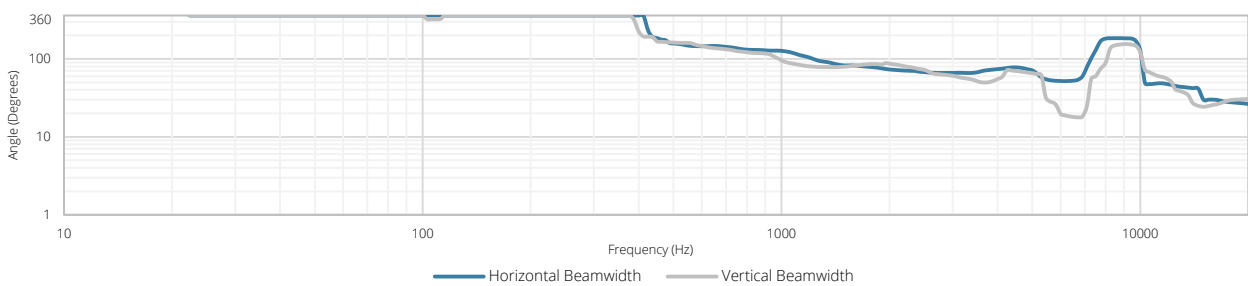
## Vertical Polars:



## Sensitivity:



## Beamwidth (-3dB):



## Directivity index:

