

Outdoor Measurement Microphones



Outdoor Measurement Microphone WP40-90
with ASD Cable and Stand

The Outdoor Measurement Microphones offer a weather-protected measurement solution for our Sound Level Meters allowing acquisition of environmental noise data in outdoor applications. The corrosion-free polymer housing, wind screen, water-repellent membrane and bird spike provide excellent protection from rain, wind, dust and perching birds.

The Outdoor Measurement Microphones M2230-WP and M2340-WP fulfill the Class 1 requirements according to IEC 61672 and ANSI S1.4 for horizontal and vertical sound incidence. For compliance a spectral correction (horizontal and vertical) must be employed in the associated Sound Level Meter. The Outdoor Measurement Microphone M4262-WP fulfills the Class 2 requirements accordingly.

The outdoor microphones consist of a measurement microphone and one of two weather protection possibilities:

- WP40-90: #600 040 140
- WP62-90: #600 040 150

Features

- Class 1 and Class 2 Outdoor Measurement Microphones for vertical and horizontal sound incidence according IEC 61672 and ANSI S1.4
- Excellent protection from rain and dust (IP64), wind and perching birds
- Built from corrosion-free materials
- Removable top section for easy microphone calibration
- Standard tripod mount, optional pole mount

EFFECTIVE OUTDOOR PROTECTION

The 90 mm windscreens features a built-in water guard, a water-repellent membrane, and bird spikes, providing excellent protection against rain, wind, dust, and perching birds. This seamless design ensures optimal performance, keeping the measurement microphone safe from the elements while minimizing wind-induced noise.

SYSTEM SELF-TEST

The Outdoor Measurement Microphone M2340-WP is system self-test (CIC) enabled. Automated self-tests may be performed by NoiseScout, the unattended noise monitoring solution, in combination with one of our Sound Level Meters. This ensures reliable operation and precise measurements.

ROBUST DESIGN / EASY CALIBRATION

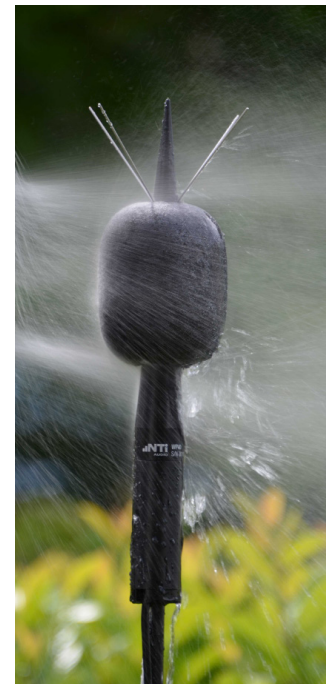
The upper section of the weather protection is snap-on mounted and can thus be easily removed by hand for manual calibration of the measurement microphone.

TECHNICAL SPECIFICATIONS

Model	M2230-WP-90	M2340-WP-90	M4262-WP-90
Microphone type	Omni-directional, free-field		
Classification IEC 61672, ANSI S1.4	Class 1	Class 1	Meets the Class 2 Frequency Response requirements
Intrinsic noise typical	16dB(A)	17dB(A)	32dB(A) SPL @ 16 mV/Pa
Maximum sound pressure level @ distortion factor 3%, 1 kHz	137dB SPL	138dB SPL	140dB SPL
Frequency range	5 Hz - 20 kHz		10 Hz - 30 kHz
Supply	Phantom power 48 VDC with XLR connector		
Mounting	Standard 3/8" tripod adapter included		
Windscreen diameter	90 mm (3.54")		
Housing diameter	36 mm (1.41")		
Housing length	366 mm (14.4")		
Weight	300g (10.6 oz)		



WP40-90



Outdoor Microphone with Pole Mount Adapter and pole (cable inside the pole)

TECHNICAL SPECIFICATIONS

Model	M2230-WP-90	M2340-WP-90	M4262-WP-90
Environmental	Rainfall with Wind Proofing under extreme conditions: Test A – PASSED – Duration 4 hours: <ul style="list-style-type: none"> Rainfall intensity Rate/ Distribution: 1200 mm/h, Uniform water coverage from 45° to WP40 and WP62 Wind Speed / Direction: 30kmh (18.6 mph) / 90 ° to WP40 and WP62 Test B – PASSED – Duration 40 minutes: <ul style="list-style-type: none"> Rainfall intensity Rate/ Distribution: 1200 mm/h, Uniform water coverage from 45° to WP40 and WP62 Wind Speed / Direction: 110 km/h (68.4 mph) / 90 ° to WP40 and WP62 		
Protection class	IP64		
Order Information NTi Audio #	600 040 050 + 600 040 140	600 040 230 + 600 040 140	600 040 075 + 600 040 150
Optional Accessory	<ul style="list-style-type: none"> Pole Mount Adapter PM 1” # 600 040 067 (for pole diameter 25 - 33 mm, 1-1.3”) Pole Mount Adapter PM 1 1/4” # 600 040 068 (for pole diameter 32 - 44 mm, 1.25-1.75”) 		

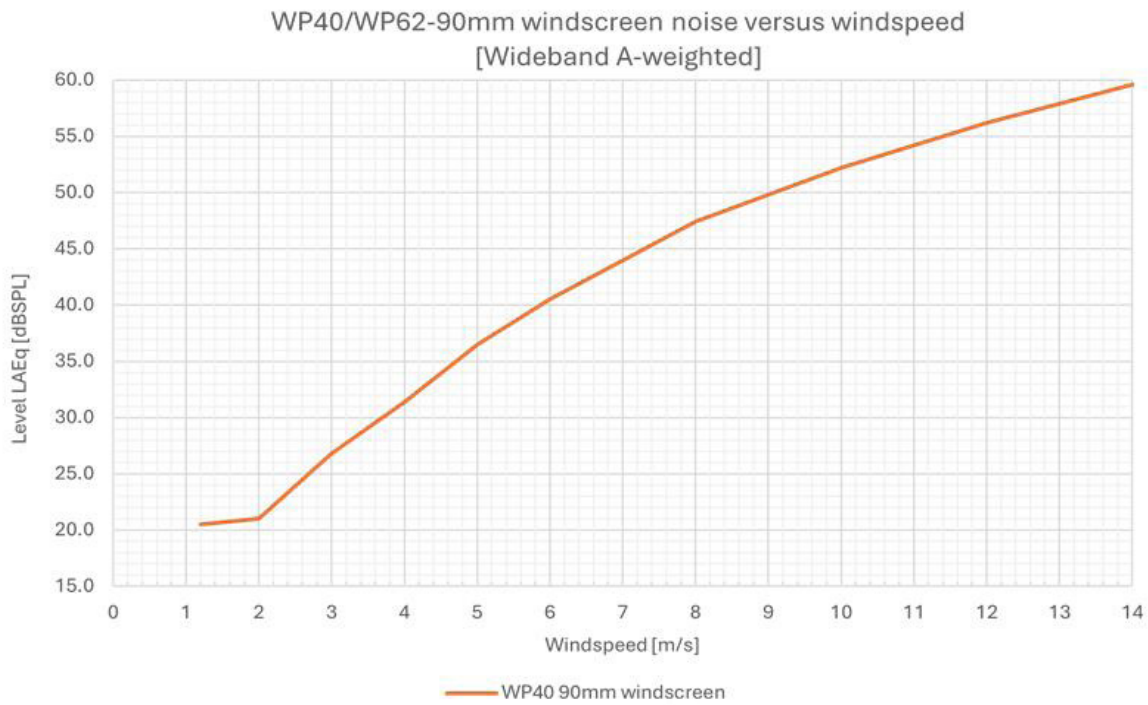
All information is subject to change without notice.

M2230, M2230-WP, M2340-WP, WP40-90, M4262, WP62-90 are trademarks of NTi Audio.

INFLUENCE OF WIND

The attenuation of wind noise provided by the WP40/WP62 90 mm Windscreen depends on wind speed. The absolute noise level measured with the WP40/WP62 90 mm Windscreen at wind speeds of up to 14 m/s are shown in the diagrams below.

- Absolute Noise Level with the WP40 90mm Windscreen at different wind speeds with A-Weighting Filter active:



- Absolute Noise Level with the WP40 90mm Windscreen for different frequencies at different wind speeds:

