

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 windscreen 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

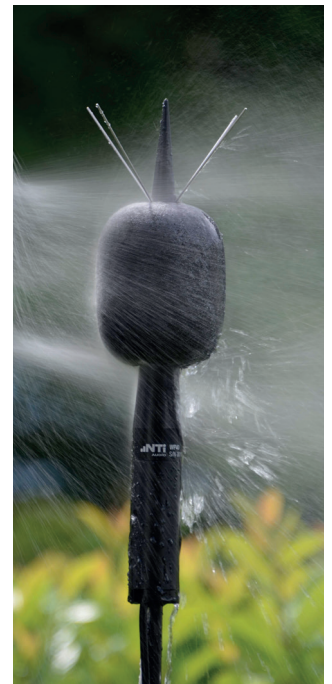
The upper section of the weather protection is snap-on mounted and can thus be easily removed by hand for manual calibration of the measurement microphone.

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.