

22. Technical Data Microphones

	M2230 Class 1 Certified	M2230-WP Class 1 Outdoor Microphone (M2230+WP30)	M2211 Frequency Response Class 1	M2215 High SPL Frequency Response Class 1	M4261 Class 2
Consisting of	PreAmplifier MA220 + MC230 or MC230A Capsule	PreAmplifier MA220 + MC230 or MC230A Capsule + WP30	PreAmplifier MA220 + M2211 Capsule	PreAmplifier MA220 + M2215 Capsule	M4261 microphone with permanently installed capsule
Microphone Type	Omnidirectional, pre-polarized condenser, free field microphone				
Classification according IEC 61672 and ANSI S1.4	Class 1 Certified	Class 1	Frequency Response Class 1		Class 2
Capsule / Transducer	1/2" detachable with 60UNS2 thread, type WS2F according IEC 61094-4				1/4" permanently installed
PreAmplifier Type	MA220				-
Flatness tolerance bands typical	± 1 dB @ 5 Hz - 20 Hz ± 1 dB @ >20 Hz - 4 kHz ± 1.5 dB @ >4 kHz - 10 kHz ± 2 dB @ >10 kHz - 16 kHz ± 3 dB @ >16 kHz - 20 kHz				$+1/-4.5$ dB @ 5 Hz - 20 Hz ± 1.5 dB @ >20 Hz - 4 kHz ± 3 dB @ >4 kHz - 10 kHz ± 4.5 dB @ >10 kHz - 16 kHz ± 5 dB @ >16 kHz - 20 kHz
Actual Frequency Response	freely available as Excel-data, register microphone at My NTi Audio and contact info@nti-audio.com				
Frequency Range	5 Hz - 20 kHz				
Residual Noise Floor typical	16 dB(A)		21 dB(A)	25 dB(A)	27 dB(A)
Maximum SPL @ THD 3%, 1 kHz	137 dB SPL		144 dB SPL	153 dB SPL	142 dB SPL

Specifications

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Sensitivity typical @ 1 kHz	-27.5 dBV/Pa \pm 2 dB (42 mV/Pa)		-34 dBV/Pa \pm 3 dB (20 mV/Pa)	-42 dBV/Pa \pm 3 dB (8 mV/Pa)	-36 dBV/Pa \pm 3 dB (16 mV/Pa)
Temperature Coefficient	< -0.01 dB / °C		< \pm 0.015 dB / °C		< \pm 0.02 dB / °C
Temperature Range	-10°C to +50°C (14°F to 122°F)				0°C to +40°C (32°F to 104°F)
Pressure Coefficient	-0.005 dB / kPa		-0.02 dB / kPa		-0.04 dB / kPa
Influence of Humidity (non-condensing)	< \pm 0.05 dB				< \pm 0.4 dB
Humidity	5% to 90% RH, non-condensing				
Long Term Stability	> 250 years / dB				-
Electronic Data Sheet	NTi Audio ASD in accordance with IEEE P1451.4 V1.0, Class 2, Template 27				
Output Impedance	100 Ohm balanced				
Power Supply	48 VDC phantom power, 3 mA typical				
Connector	Balanced 3-pole XLR				
Diameter Dimensions	20.5 mm (0.8")	36 mm (1.4")	20.5 mm (0.8")		
Length Dimensions	154 mm (6.1")	378 mm (14.9")	150 mm (5.9")		
Weight	100 g, 3.53 oz	430 g, 15.17 oz	100 g, 3.53 oz		83 g, 2.93 oz
Environmental Protection	IP51	IP54 in vertical position	IP51		
NTi Audio #	600 040 050	600 040 055	600 040 022	600 040 045	600 040 070