

M2214 Low Noise Measurement Microphone



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The measurement microphone M2214 has a particularly low residual noise level of just 6.5 dBA and is designed for acoustic measurements of very low sound pressure levels.

The polarization voltage for the externally polarized measuring microphone capsule is generated in the measuring microphone preamplifier. The electrical connection is via BNC cables to measuring channels with ICP supply. For applications with the XL2 Sound Level Meter, the ICP Adapter ASD accessory is required for this purpose.

Features

- Free-field microphone
- 5 Hz to 20 kHz
- 6.5 dBA to 103 dB
- ICP (BNC)

SPECIFICATIONS

Microphone Type	Omnidirectional, pre-polarized condenser, free field microphone
Capsule / Transducer	1/2" detachable with 60UNS2 thread, type WS2F according IEC 61094-4 matched with preamplifier
PreAmplifier Type	MA214
Flatness tolerance bands typical	±2 dB @ 10 Hz to 16 kHz ± 3dB @ 5 Hz to 20 kHz
Sensitivity typical @ 1 kHz	320 mV/Pa
Residual Noise Floor typical	6.5 dBA
Maximum SPL @ THD 3%, 1 kHz, S_typical	Peak 103 dB RMS 100 dB
Temperature Coefficient	≥0.01 dB/K
Temperature range	-20 to +60 °C (-4 to 140 °F)
Pressure Coefficient	-0.00001 dB/Pa
Humidity	< 90%, RH, non-condensing
Current Consumption typical	4 to 20 mA
Output impedance	<100 Ohm
Connector	BNC
Diameter Dimensions	12.7 mm (0.5") protection grid 13.2 mm (0.52")
Length Dimensions	135 mm (5.3")
Weight	250 g (8.8 oz)
Windscreen Diameter	50 mm (2")
Scope of Supply	Windscreen, Microphone Holder
Order Information	Low Noise Measurement Microphone M2214 NTi Audio # 600 040 240 ICP Adapter ASD (for operation with XL2) NTi Audio # 600 010 223

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