

MA220

1/2" Microphone PreAmplifier



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Key Features

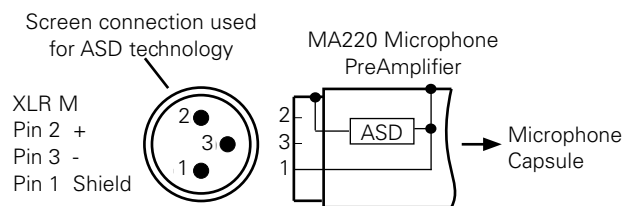
- 1/2" low noise microphone preamplifier
- Including electronic data sheet for XL2 Analyzer
- Compatible with standardized 1/2" measurement microphone capsules, such as B&K, G.R.A.S., MTG, ...

Applications

- Microphone preamplifier for sound level monitoring and room acoustical measurements.
- Measurement microphones can be connected with the NTi Audio ASD Cable to the XL2 Audio and Acoustic Analyzer for measurements at remote locations or reducing acoustical reflections.

Electronic Data Sheet

The MA220 Microphone PreAmplifier includes an electronic data sheet. The automated sensor detection (ASD) of the XL2 Analyzer reads this data sheet, enabling the XL2 to automatically recognize the preamplifier type and serial number, microphone sensitivity and user calibration date. This ensures correct measurement results using the MA220 Microphone PreAmplifier with 1/2" microphone capsules.



Connection Diagram of Microphone PreAmplifier

Specifications MA220

Microphone PreAmplifier	1/2"; compatible with standardized 1/2 microphone capsules, such as B&K, G.R.A.S., MTG, ...
Frequency Range	4 Hz - 100 kHz
Residual Noise Floor typ.	1.6uV(A) at C _{in} 18pF == 12 dBA @ 20 mV/Pa
Frequency Response Flatness	±0.2 dB
Phase Linearity	< 1° @ 20 Hz - 20 kHz
Maximum Output Voltage @THD 3%, 1 kHz	21 V _{pp} == 7.4 V _{rms} == 145 dB SPL @ 20 mV/Pa
Electronic Data Sheet	<ul style="list-style-type: none"> • Containing user calibration data • Default factory sensitivity = 4.9 V/Pa • Read/write by XL2 Audio and Acoustic Analyzer • NTi Audio ASD according IEEE P1451.4 V1.0, Class 2, Template 27
Input Impedance	20 GOhm // 0.26 pF
Output Impedance	100 Ohm balanced
Power Supply	48 VDC phantom power, 3 mA typical
Attenuation	< 0.17 dB (Rphantom 2x 6.8 kOhm)
Temperature Range	-10°C to +50°C (14°F to 122°F)
Humidity	5% to 90% RH, non-condensing
Dimensions	Length 142.5 mm (5.6"), diameter 20.5 mm (0.8")
Thread for Capsule	60 UNS2
Connector	Balanced 3-pole XLR
NTi Audio #	600 040 040

Accessories

- Precision Calibrator 94/114 dB, Class 1
 The precision calibrator ensures accurate sound level measurements. It generates 94 or 114 dB SPL reference tones @ 1 kHz for calibration of measurement microphones.
 NTi Audio #: 600 000 390
- ASD Cable
 The ASD Cable allows for extended connections of the measurement microphones M4260, M2210 or microphone preamplifier MA220, while maintaining the automated sensor detection functionality. You may chain up to 4x ASD Cables together in tandem. Length = 5 meter (16 ft).
 NTi Audio #: 600 000 336

All information subject to change without notice.
 The product specifications may vary based on the mounted microphone capsule type.