



The M2010 and M2015 are compact and accurate measurement microphones for acoustics, R&D and production. They are particularly suited for applications with restricted space available.

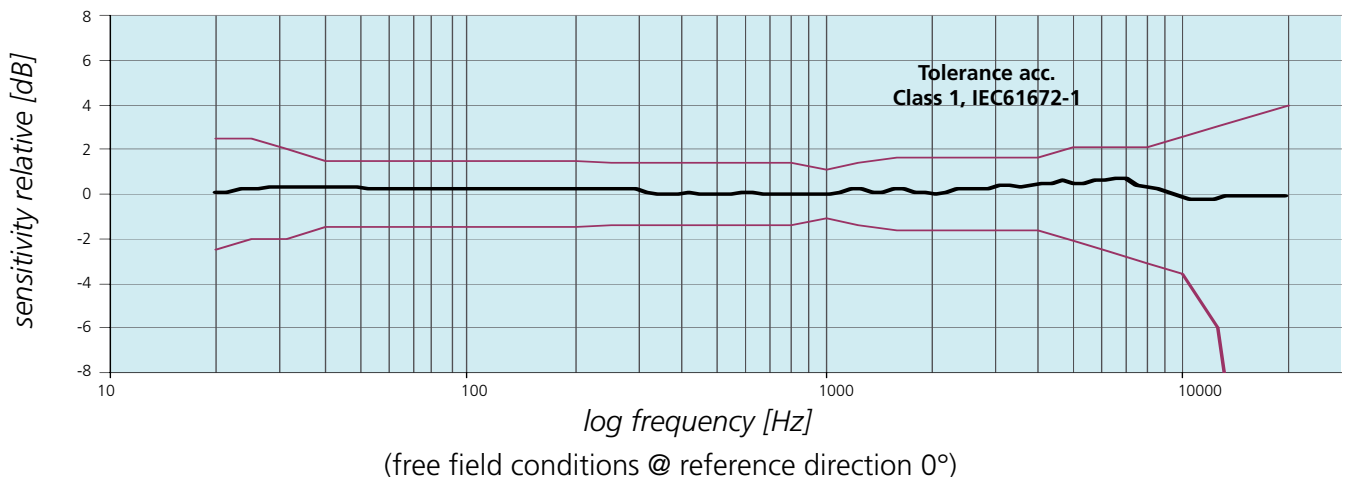
Main characteristics:

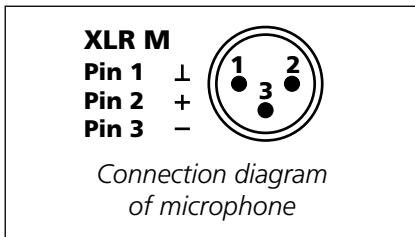
- 1/2" omni-directional pressure microphone
- Flatness Class 1 (IEC 61672-1)
- Phantom power 10 - 48 VDC
- Measurement range
M2010: 24 - 145 dB SPL (typical)
M2015: 34 - 155 dB SPL (typical)

The microphones M2010 and M2015 are optimised for a flat, free-field response in the audio range 20Hz - 20kHz.

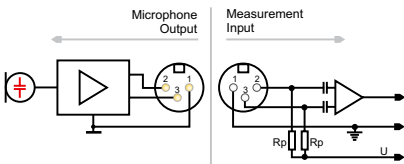
The detachable microphone cable at the pre-amplifier simplifies integration into mechanical fixtures, such as robotic arms. The microphone includes a wind screen, a microphone stand and an individual calibration certificate with individual frequency response chart and sensitivity.

Typical frequency response

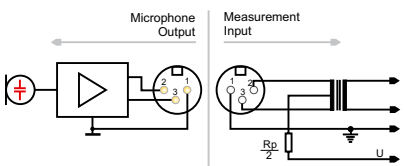




Phantom power supply



AC coupled amplifiers



Input transformer with center tap (floating).

Specifications	M2010	M2015
Microphone type	1/2" pre-polarized condenser, free field	
Polar pattern	omni-directional	
Flatness	exceeds Class 1 (IEC61672-1) < ±1 dB @ 100 Hz - 4 kHz < ±2 dB @ 10 Hz - 20 kHz	
Sensitivity	-29 dBV/Pa ±3 dB (35 mV/Pa @ 1kHz)	-40 dBV/Pa ±3 dB (10 mV/Pa @ 1kHz)
Maximum SPL @ 1 kHz, THD 3%, 48 VDC	typical 145 dB SPL	typical 155 dB SPL
Equivalent noise level	< 24 dB SPL (A-weighted)	< 34 dB SPL (A-weighted)
Temperature coefficient	0.01 dB / °C @ (-10°C to +50°C)	
Long term stability	>250 years /dB	
Electrostatic capacitance	18 pF (cartridge only)	
Output impedance	100 Ohm (balanced), 50 Ohm (single ended)	
Power consumption @ dB SPL max	typical 4 mA	
Overall shell length	50 mm (1.9")	
Body diameter	13.2 mm (0.52") with protective cap	
Connector	3-pole XLR (NEUTRIK®)	
Cable	1.5 m (5 ft), diameter 3.6 mm, cable is detachable at the amplifier side, 3-pole NanoCon® (NEUTRIK®)	

Worst case maximum SPL (@ THD 3%, 1 kHz, Rp*)		
Phantom Power	M2010	M2015
48 VDC	>142 dB SPL	>152 dB SPL
24 VDC	>134 dB SPL	>144 dB SPL
15 VDC	>128 dB SPL	>138 dB SPL
10 VDC	>124 dB SPL	>134 dB SPL

*Rp = 6.8 kOhm @ U = 48 V, 1.2 kOhm @ 24 V, 680 Ohm @ 15,10 V