

M2010 / M2015 Measurement Microphone



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 free-field microphone
- Frequency Response Flatness Class 1 (IEC 61672-1)
- Phantom power 10 48 VDC
- Measurement range M2010: 24 - 145 dBSPL (typical) M2015: 34 - 155 dBSPL (typical)

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

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 a calibration certificate with individual frequency response chart and sensitivity.



Typical frequency response





Wind screen



Phantom power supply



AC coupled amplifiers



Input transformer with center tap (floating).

Specifications

	M2010	M2015
Microphone type	Omnidirectional, pre-polarized condenser, free field microphone	
Capsule / Transducer	1/2" detachable with 60UNS2 thread and metal diaphragm	
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 @ 1 kHz)	–40 dBV/Pa ±3 dB (10 mV/Pa @ 1 kHz)
Maximum SPL @ 1 kHz, THD 3%, 48 VDC	typical 145 dBSPL	typical 155 dBSPL
Equivalent noise level	< 24 dBSPL (A-weighted)	< 34 dBSPL (A-weighted)
Temperature coefficient	< ±0.015 dB / °C	
Temperature range	–10°C to +50°C (14°F to 122°F)	
Long term stability	> 250 years/dB	
Electrostatic capacitance	18 pF (cartridge only)	
Output impedance	100 Ω (balanced), 50 Ω (single ended)	
Power consumption @ dBSPL 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®)	
Accessories (included)	Microphone clamp Wind shield, 35 mm (1.4") diameter Individual calibration certificate	

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

* Rp = 6.8 k Ω @ U = 48 V, 1.2 k Ω @ 24 V, 680 Ω @ 15,10 V

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