

Free-field Microphone Sets MPA 668-812

Version: 2.0_20240228_EN



MPA 668-812 is an explosion-proof certified special microphone kit that meets the requirements for use in hazardous areas and explosive environments to ensure safe use in hazardous gas environments.

It consists of a microphone MP 668 and a preamplifier MA 812; Among them, the MP 668 is a 1/2 inch pre-polarized free field measuring microphone, which is used to measure the true sound pressure without distortion before the microphone is placed into the sound field. The MA 812 preamplifier is a preamplifier powered by a constant current source, with high input impedance, low inherent noise, and wide frequency response range.

Product characteristics

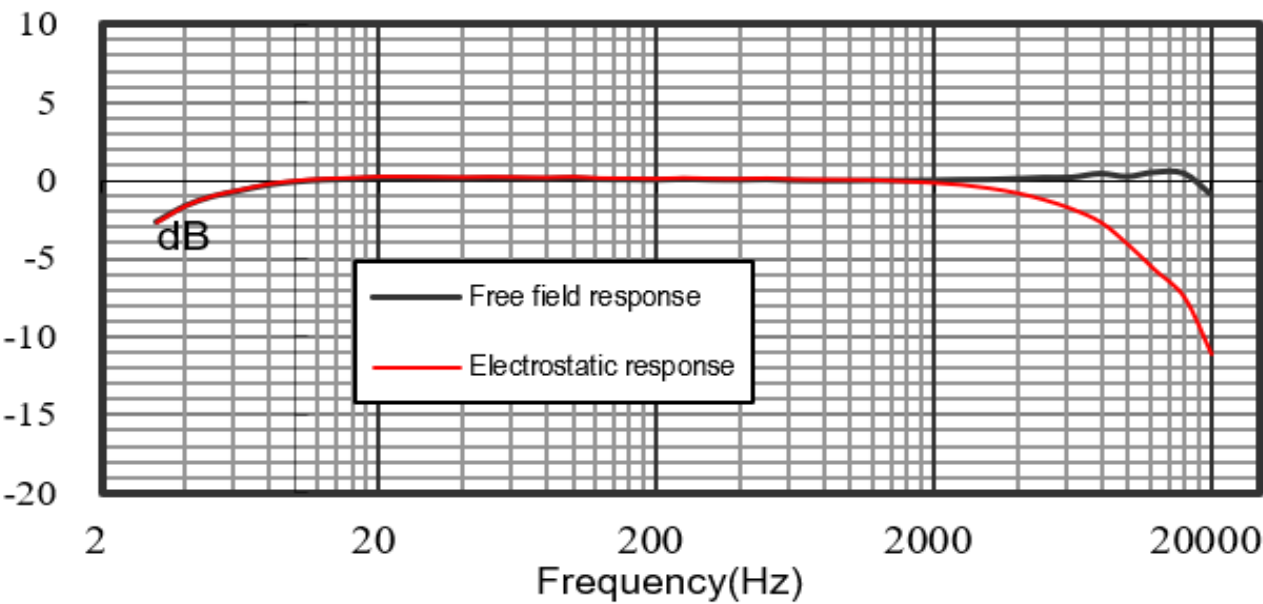
- Compliance with IEC 61094-4 WS2F Specifications for working standard microphones
- Compliance with IECEx explosion-proof standard, pass Ex ic IIB T4 Gc
- Compliance with EN/IEC60079-0 EN/IEC60079-11
- Compliance with GB3836.1/GB3836.4

Specifications

Sound field	Free-field
Polarization	0V (Pre polarized)
Frequency range	3.15Hz – 20kHz ± 2dB 12.5Hz – 10kHz ± 1dB
Dynamic range	17dB (A) -135dB (1000 Hz THD<3%)
Inherent noise	17dB (A)
Sensitivity mV/Pa(dBV/Pa)	50mV (-26.0dB) ± 2dB
Output level max	5.6V
Output impedance	<50Ω
Power supply min. to max.	2mA-10mA (Typical 4mA)
Microphone venting	Rear
Connect type	BNC

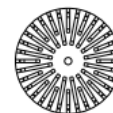
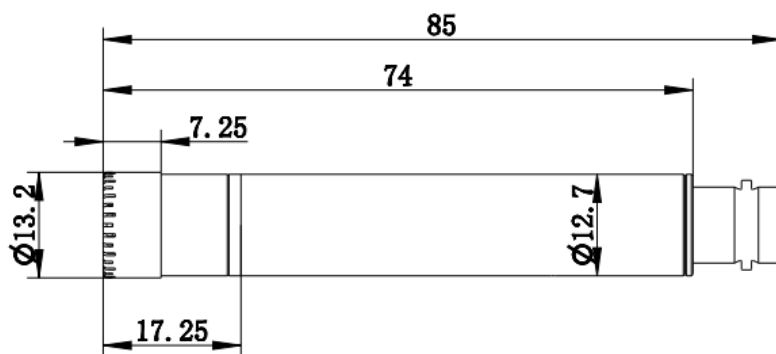
Temperature range,operation	-20℃ to 60℃
Storage condition	Temperature: 25℃±5℃, humidity: 50%±15%RH (to ensure the long-term stability of the sensor)
Relative humidity	10-90% no condensation
Relative humidity coefficient	<0.1dB(10-90% no condensation)

Free-field Measurement Sets MPA 668-812 Frequency Response



Mechanical dimension

Overall length	85mm (including protection grid)
Diameter	13.2mm (including protection gate)
Diameter	12.7mm(excluding protection gate)
Lead pole fit thread	11.7mm-60UNS



MegaSig reserves the right to change specifications and accessories without notice.



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