

AWA14435 Measuring Microphone



I. Introduction

The AWA14435 measuring microphone is a 1/4-inch measuring microphone specifically designed for high-precision, high-sound-pressure free-field measurements. It features a wide dynamic range, good stability, and environmental adaptability, meeting the Class 2 engineering measuring microphone requirements of SJ/T 10724. It can be used with the AWA8750 adapter and a 1/2-inch preamplifier, or directly with the AWA14614E 1/4-inch preamplifier. Furthermore, after phase filtering, it can be configured as a sound intensity probe for sound intensity measurement. The assembly and debugging of the AWA144XX series measuring microphones are performed in a cleanroom, featuring low background noise, high stability, and a wide frequency response range. It can be used with multi-channel analyzers, noise analyzers, electroacoustic testers, and other instruments for noise measurement and analysis, and can also replace measuring microphones from other domestic and international brands.

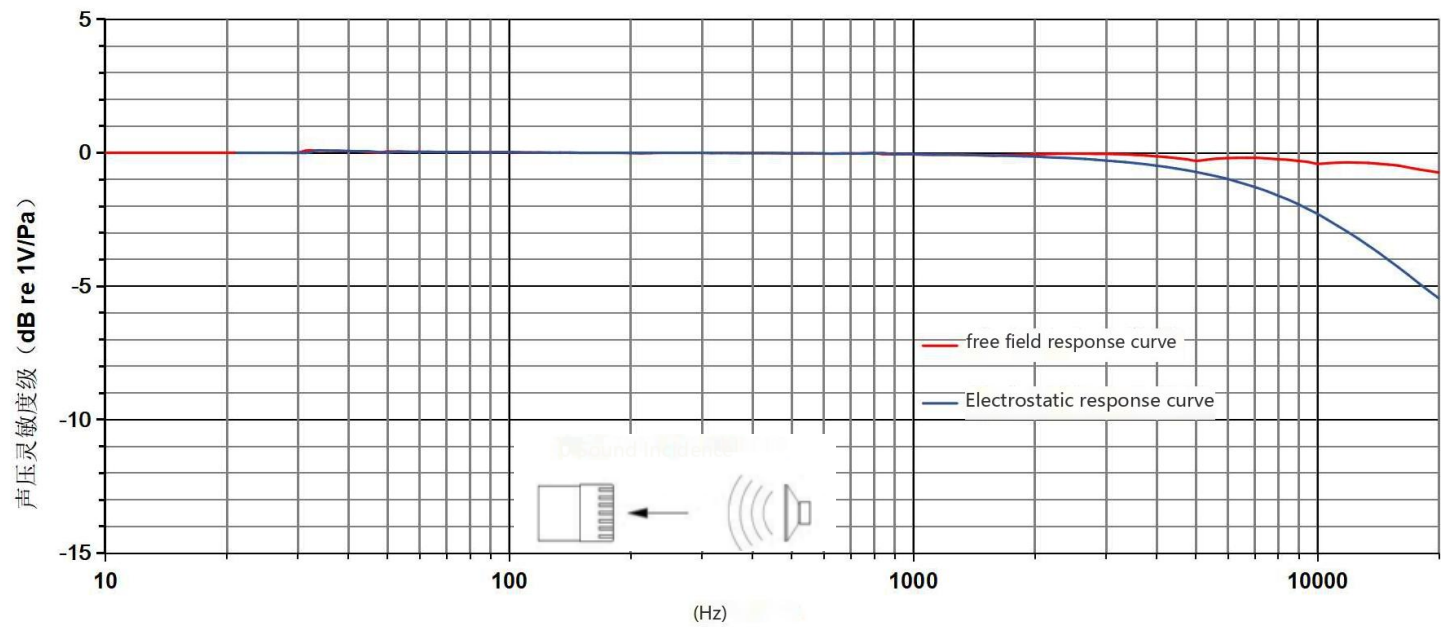
II. Technical Specifications

AWA14435 Measuring Microphone	
Sound Field Type	Free Field
Diameter	1.4 inches
Dimensions conform to standard (IEC 61094)	WS3F
Polarization Voltage (V)	0
Sensitivity (mV/Pa) (@250 Hz±2.0 dB)	4. 0
Frequency Range (Hz)	5～20k
Typical Capacitance (pF) (@250Hz)	6
Dynamic range (dB)	40～167
Noise floor (dBA)	≤40
Voltage Equalization Method	Post-Equalization
Operating Temperature (°C)	-30～+80
Temperature Coefficient (dB/°C) (@250Hz)	-0. 01 (-10 °C～50 °C)
Static pressure coefficient (dB/kPa)	-0. 005
Operating humidity range (%RH)	0～100

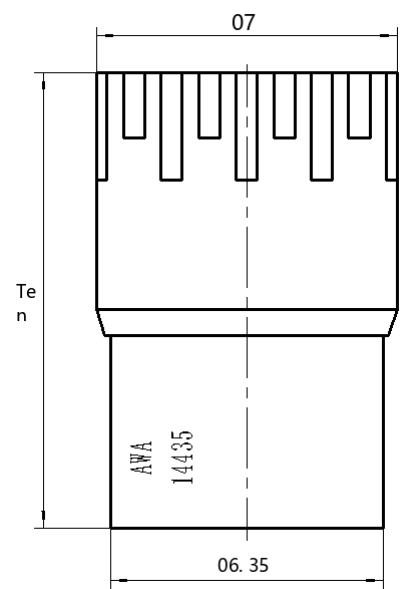
Height (including protective cover) (mm)	10.4
Diameter (including protective cover) (mm)	7
Height (excluding protective cover) (mm)	9.0
Diameter (excluding protective cover) (mm)	6.35
Preamplifier Fitting Thread	5.7 mm-60 UNS

III. Typical frequency response curve of AWA14435 measuring microphone

Test conditions: Temperature 23 °C, relative humidity 50 %RH



IV. Dimensions



V. Contact Information

Telephone:0571-8502 2755

Email Address:mail@hzaihua.com

Address: No. 37, Xianxing Road, Xianlin Street, Yuhang District, Hangzhou City