1 Inch Random Incidence Microphone Model 2575



Typical Applications

- Precision sound level measurements
- Environmental noise monitoring
- Industrial hygiene noise studies
- Machinery noise control
- Research and development



Features

- Rugged
- Accurate
- Wide frequency range
- Flat frequency response
- Stable over temperature and humidity
- Externally Polarized
- Supplied with individual calibration data

The Larson Davis Model 2575 is a random incidence, 1 inch microphone. It exhibits good temperature stability, an important parameter for microphones.

The Model 2575 is the appropriate microphone for use with precision sound level meters intended to meet the specifications of IEC 60651 Type 1 and ANSI S1.4-1983 Type 1.

Technical Specifications

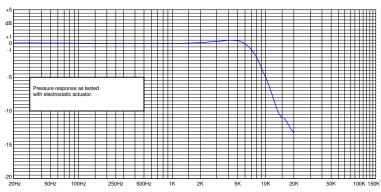
Model 2575			
Nominal Diameter	1 inch		
Open Circuit Frequency Response (± 2 dB)	2.6 Hz to 8 kHz		
Open Circuit Sensitivity (250 Hz)	45 mV/Pa (-26.9 ± 1.4 dB re: 1V/Pa)		
Lower Limiting Frequency (-3 dB)	1 Hz to 2 Hz (rear vented)		
Cartridge Thermal Noise	10 dB(A)		
Distortion Limit (3%)	>146 dB re: 20 µPa at 100 Hz		
Diaphragm Resonance Frequency	8 kHz (90° phase-shift)		
Polarization Voltage	200 V		
Polarized Cartridge Capacitance (250 Hz)	57 pF		
Mean Temperature Coefficient	+0.01 dB/°C (-10 °C to +50 °C)		
Equivalent Air Volume	148 mm ³		
Expected Long-Term Stability >1000 years/dB at 20 °C (68 °F)			
Influence of Vibration	8 dB re: 20 μPa when excited with 1 m/s² axial vibration		
Influence of Magnetic Field	0 dB re: 20 μPa in 60 Hz, 80 A/m field		
Influence of Humidity	<0.1 dB, 0% to 95% RH, non-condensing		
Influence of Static Pressure	- 0.0166 dB/kPa		
Diameter With Grid Without Grid	23.77 mm (0.936 in) 23.77 mm (0.936 in)		
Height With Grid Without Grid	19 mm (0.748 in) 17 mm (0.668 in)		
Thread for preamplifier mounting	23.11 mm-60 UNS (0.9098-60 UNS)		

Unless otherwise specified, all data are valid at 23 °C, 101.3 kPa and 50% RH

Accessories and Related Products

ADP008	1 inch to 1/2 inch preamp adaptor	PRM902	1/2 inch microphone preamplifier with LEMO connector
PRM828	1/2 inch microphone preamplifier with Switchcraft connector for use with Larson Davis 812/820 and DSP80	CAL250	Class 1 acoustic calibrator: 114 dB @ 250 Hz
PRM900C	1/2 inch microphone preamplifier with Switchcraft connector		

Typical Frequency Response from Calibration Certificate





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Larson Davis provides a complete line of acoustic measurement tools including dosimeters, sound level meters, real time analyzers, preamplifiers, calibrators, and microphones.