



MODEL CAL200

PRECISION ACOUSTIC CALIBRATOR

- Output level: 94 or 114 dB
- Output frequency: 1 kHz
- 1/2" microphone opening
- IEC 60942-1:2003 compliant
- Internal battery
- Output level independent of battery condition
- Adaptors: 1/8", 1/4", 3/8" microphones

TYPICAL APPLICATIONS

Field or laboratory calibration of:

- Sound level meters
- Noise dosimeters
- Noise monitoring stations





IEC 60942 CLASS 1 CALIBRATOR

The Larson Davis CAL200 Sound Level Calibrator is a battery operated precision microphone calibrator used for the calibration of sound level meters and other sound measurement equipment with $\frac{1}{2}$ " microphones. It can provide an output level of either 94.0 or 114.0 dB (switch-selectable) at a frequency of 1 kHz. Adaptors for $\frac{1}{10}$ ", $\frac{1}{10}$ ", and $\frac{3}{10}$ " microphones are available as optional accessories.

It has been designed for both field and laboratory use and the accuracy has been calibrated to a reference traceable to the National Institute of Standards and Technology (NIST).

The Larson Davis CAL200 features a stable sound pressure independent of the battery condition. In addition, the Larson Davis CAL200 will turn off automatically to preserve battery and guarantee a stable output.

In addition to precision acoustic calibrators, factory calibration services for Larson Davis products are available through the CAL+ program. CAL+ service is provided with all Larson Davis calibrations and includes a complete multi-point factory test, free firmware upgrade to the latest version where applicable, labor warranty extended for one year^[1], worn consumables replaced at no charge^[2], and more. Contact us for details.

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CAL200 PRECISION ACOUSTIC CALIBRATOR				
Acoustic				
Calibration Sound Pressure Level		114.0 dB and 94.0 dB ± 0.2 dB SPL re: 20μPa (114.0 dB is the principal sound pressure level)		
Equivalent Free-field Level		-0.12 dB for 1/2" microphones		
Frequency		1 kHz ± 0.7%		
Harmonic Distortion		< 2 %		
Stability After Pressing On		± 0.1 dB after 2 seconds		
Minimum Stabilizing Time		10 seconds after coupling microphone and calibrator		
Reference Conditions		101.3 kPa, 23 °C and 50 % RH		
Environmental				
Static Pressure Range		65 kPa to 108 kPa	SPL variation < ± 0.25 dB	
Temperature Range		-10 °C to +50 °C	SPL variation $< \pm 0.4$ dB Frequency variation $< \pm 7$ Hz	
Humidity Range		10 % to 90 % RH non-condensing	SPL variation $< \pm 0.3 \text{ dB}$ Frequency variation $< \pm 7 \text{ Hz}$	
Storage Temperature		-40 °C to +60 °C		
Storage Humidity		0 % to 90 % RH (non-condensing)		
Physical		·		
Effective Volume of Calibrator and Microphone		> 6.1 in ³ (100 cm ³)		
Dimensions (L x W x H)		4.18 x 2.5 x 1.02 in (106.1 x 63.4 x 25.9 mm)		
Weight		5.5 oz (156 g)		
Power Supply				
Battery		9 V NEDA 1604A or IEC 6LR61		
Battery Voltage Operating Range		6.7 V to 10 V		
Traceability				
Traceability		Traceable to National Institute of Standards and Technology (NIST)		
Supplied Accessories				
9 V Alkaline Battery				
Users Manual				
Optional Accessories				
ADP109		Adaptor for 1/4" microphones		
ADP031		Adaptor for 3/8" microphones		
ADP075		Adaptor for $\frac{1}{8}$ " microphones		
Related Products				
CAL250 Class 1 Precision Acoustic Calibrator (250 Hz)			Calibrator (250 Hz)	
CAL150	Class 2 Precision Acoustic Calibrator (1000 Hz)			

COMPLIANCE			
Acoustic			
ANSI S1.40-2006, Class 1			
IEC 60942-2003, Class 1			
IEC 60942:2017, Class 1			
IEC 60942:2018, Class 1			
Safety			
IEC 61010-1:2001			
EMC			
EU directive 2004/108/EC			
IEC 61326-1:2005			
Use with Microphones of Type			
IEC 61094-4:1995	$^{1\!\!/}_{2"}$ WS2P, WS2F and WS2D microphones; no adaptor required		
	14" WS3P, WS3F and WS3D microphones with ADP109 adaptor		
According to IEC 61094-1:2000	1⁄2" LS2P		
Other microphones	%" with ADP031 adaptor		
For Use with Sound Level Meters and Noise Dosimeters			
ANSI S1.4 Type 1			
ANSI S1.25			
IEC 61672 Class 1			
IEC 61252			

Requires regular annual factory calibration. Limited to seven (7) years.
Windscreen, O-rings, desiccants, fuses, for example.



for 1/4" Microphones





ADP075 for 1/8" Microphones

Microphone Adaptors

LARSON DAVIS A PCB DIVISION

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