







MODEL CAL150

PRECISION ACOUSTIC CALIBRATOR

- Output level: 94 or 114 dB
- Output frequency: 1 kHz
- ½" microphone opening
- IEC 60942-1:2003 compliant
- Internal battery
- Output level independent of battery condition
- Adaptors: 1/4", 3/8" microphones

TYPICAL APPLICATIONS

Field or laboratory calibration of:

- Sound level meters
- Noise dosimeters
- Noise monitoring stations

IEC 60942 CLASS 2 CALIBRATOR

The Larson Davis CAL150 Sound Level Calibrator is a battery operated precision microphone calibrator used for the calibration of sound level meters and other sound measurement equipment. It can provide an output level of either 94.0 or 114.0 dB (switch-selectable) at a frequency of 1 kHz. CAL150 includes an adaptor for %" microphones. A 14" adaptor is also available as an optional accessory.

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 CAL150 features a stable sound pressure independent of the battery condition. In addition, the Larson Davis CAL150 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.

SPECIFICATIONS				
Acoustic				
Calibration Sound Pressure Level		114.0 dB and 94.0 dB ± 0.3 dB SPL re: 20 μPa (114.0 dB is the principal sound pressure level)		
Equivalent Free-field Level		-0.12 dB for 1/2" microphones		
Frequency		1 kHz ± 1%		
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 < ± 0.4 dB	
Temperature Range		-10 °C to +50 °C	SPL variation $< \pm 0.6 \text{ dB}$ Frequency variation $< \pm 7 \text{ Hz}$	
Humidity Range		10 % to 90 % RH non-condensing	SPL variation $< \pm 0.5$ dB Frequency variation $< \pm 7$ Hz	
Storage Temperature		-40 °C to +60 °C		
Storage Humidity		0 % to 90 % RH (non-condensing)		
Physical				
Effective Volume of Calibrator and Microphone (WS2P)		0.253 in ³ (4.15 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 1604 A 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 Access	sories			
9 V Alkaline Battery				
Adaptor ADP031		hones		
Users Manual				
Related Products				
CAL250 Class 1 Precision Acoustic Calibrator (250 Hz)				
CAL200	Class 1 Precision Acoustic Calibrator (200 Hz)			
			. ,	
ADP109 Adaptor for ¼" microphones				

COMPLIANCE				
Acoustic				
ANSI S1.40-2006, Class 2				
IEC 60942-2003, Class 2				
IEC 60942:2017, Clas	ss 2			
Safety				
IEC 61010-1:2001				
EMC				
EU directive 2004/108/EC				
IEC 61326-1:2005				
For Use with Microp	phones of Type			
IEC 61094-4:1995	$^{1\!\!/}_{2"}$ WS2P, WS2F and WS2D microphones; no adaptor required			
	1/4" WS3P, WS3F and WS3D microphones with ADP109 adapte			
According to IEC 61094-1:2000	½" LS2P			
Other Microphones	3/8" with ADP020 adaptor			
For Use with Sound	Level Meters and Noise Dosimeters			
ANSI S1.4 Type 2				
ANSI S1.25				
IEC 61672 Class 2				
IEC 61252				
	ual factory calibration. Limited to seven (7) years.			

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





ADP109 for 1/4" Microphones

ADP031 for 3/8" Microphones

Microphone Adaptors



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