Class 2 Dual Level Sound Calibrator

(c) NoiseMeters

Features

- IEC 60942:2003 Class 2
- ANSI S1.40:2006
- Dual level 94 and 114 dB
- Frequency 1 kHz
- Fits ½" microphones
- Adapter available for ¼" microphones

Applications

- Calibration check of Class 2 sound level meter
- Calibration check of noise dosimeters
- One calibrator for multiple meters
- Field calibration checks

Overview

The CR516 Acoustic Calibrator meets ANSI S1.40:2006 and IEC 60942:2003 to Class 2. It is designed for use with the Class 2 sound level meters and noise dosimeters that NoiseMeters offers.

Hand held sound level meters generally expect a calibration level of 94 dB at a frequency of 1 kHz. Noise dosimeters, which mount on a worker's shoulder to monitor daily noise exposure levels, often expect a calibration level of 114 dB at 1 kHz. Rather than having two calibrators the CR516 can be switched on at either 94 dB or 114 dB for use with either noise measurement device.

Using It

When the Calibrator is switched on it emits a 1 kHz tone at either 94 dB or 114 dB. The calibrator should be pushed carefully (firmly, but slowly) on to the microphone capsule of the sound level meter or noise dosimeter.

The meter should now be adjusted accordingly. Older sound level meters will have to be adjusted manually to the correct reading. Most modern meters (and all those supplied by NoiseMeters) adjust themselves automatically.

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Specifications

Standards	IEC 60942:2017 Class 2 ANSI S1.40:2006	Calibration adapter	QD7 for use with 1/4" microphone capsules
Sound Level	94.0 dB ± 0.4 dB 114.0 dB ± 0.4 dB	Battery type	1 x 9v (PP3, 6LR61, 6F22)
		Dimensions	121 x Ø47 mm
Frequency	1 kHz ± 1%	Weight	220 g with battery
Distortion	< 2%	Controls	Push button start at 94dB, push again for 114dB
Reference conditions	23°C, 101.3 kPa, 65% RH		LED power indicator. Manual or auto switch off
Microphone size	½" (to IEC 1094-4)	CE classification	EN 61000-6-3:2007+A1:2011
			EN 61000-6-1:2007