



dBCal Calibrators



Most Measurement codes of practice and legislative guides demand that an acoustic 'field' calibration of any sound level meter should be made before a series of measurements and that the accuracy is checked afterwards. The Castle dBCal Calibrators provide just that with 3 output levels, long battery-life and highly ergonomic design. Considerable care has gone into making sure that this is the only sound calibrator has its controls and displays on the same 'line-of-sight' surface as the sound meter.

Features

- **AVAILABLE AS CLASS 1 OR CLASS 2**
- **3 OUTPUT LEVELS, 94dB, 104dB & 114dB, EACH AT 1 kHz.**
THIS ALLOWS GREATER OPTIONS FOR TESTING SOUND METERS
- **'LINE-OF-SIGHT' ERGONOMICS**
ALL CONTROLS & DISPLAYS ON THE SAME SURFACE AS SOUND METER
- **SIMPLE OPERATION – TURN ON AND GO!**
- **ULTRA-LOW DISTORTION & STABILITY**
- **MEMS MICROPHONE FEEDBACK**
FOR ATMOSPHERIC PRESSURE COMPENSATION
- **COMPLIANT WITH 2018 STANDARD**
- **USER-UPGRADABLE SOFTWARE FOR FUTURE-PROOFING**

Calibration Reports

For wireless sound level meters, such as the Castle dBAir, the calibrator (GA611W) and sound meter can automatically pair each time a calibration is performed, generating a calibration report containing the serial number and calibration status of the calibrator as well as that of the sound meter. This report will be stored within the sound level meter and later uploaded to the Castle Cloud software, in order to create a traceable and secure calibration history database.



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dBCal shown here with the
Castle dBAir Sound Meter



Features & Specification

Specifications	GA611—Class 1	GA612—Class 2
Tolerance	± 0.25dB	± 0.4dB
Harmonic Distortion	< 1.6%	< 3%
Temperature range	-10°C to 50°C	0°C to 40°C
Relative Humidity	25% to 90%	25% to 90%
Atmospheric Pressure Range	65 kPa to 108 kPa	65 kPa to 108 kPa
Nominal Conditions	101.3kPa (760mm Hg), 23°C & 50%RH	
Batteries	2 x 1.5V AA Alkaline	
Battery Life	approx. 70 hours continuous	
Auto Power-off	1 minute (unless 'wireless' calibration started)	
Cavity diameter	½" microphone standard	
Output Levels (rel. to 20µPa)	94dB, 104dB & 114dB	
Standards	IEC 60942:2017, BS EN IEC 60942:2018, ANSI S1.40 2006	



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