

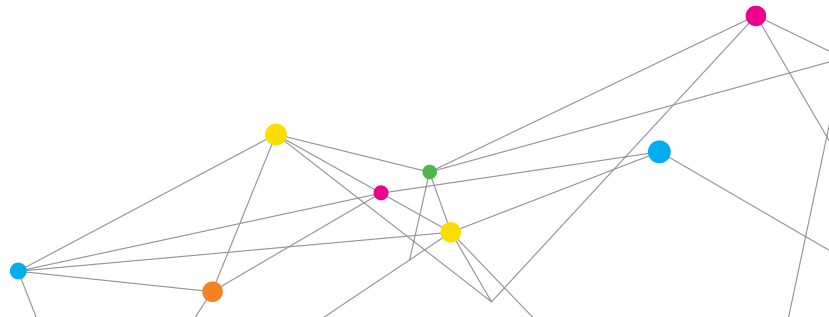
# ACOUSTICAL AC-300 CALIBRATOR

The Acoustical AC-300 Calibrator is specifically designed for field calibration of Quest sound level meters and noise dosimeters across a wide range of temperature, humidity and pressure conditions.



## Features and Benefits

- + Produces two signals, 250 Hz or 1,000 Hz at a sound pressure level of 114 dB
- + Simply insert the microphone of your instrument, select the correct signal from the one-button keypad, and calibrate
- + Conforms to the requirements of IEC 60942 (2003-01) for sound calibrators and ANSI S1.40-2006 (R2011): specifications and verification procedures for sound level meters



## SPECIFICATIONS

### ACOUSTICAL AC-300 CALIBRATOR

|         |                                                                                       |
|---------|---------------------------------------------------------------------------------------|
| Size    | 3.9" (L) x 2.3" (W) x 1.8" (D) / 10 cm (L)<br>x 5.8 cm (W) x 4.6 cm (D)               |
| Weight  | 6 oz (0.17 kg)                                                                        |
| Battery | 1 x 9v alkaline battery<br>(ANSI/NEDA 1604A, IEC 6LR61)<br>Approx. 18 hours (@ 1 kHz) |

#### Conformance to Standards

|                         |                                                                  |
|-------------------------|------------------------------------------------------------------|
| ANSI S1.40-2006 (R2011) | Specifications and Verification Procedures for Sound Calibrators |
| IEC 60942 (2003)        | Electroacoustics, Sound Calibrator/Class 1                       |
| CE, RoHS, WEEE, C-Tick  |                                                                  |

#### Outputs

|                      |                                                                                           |
|----------------------|-------------------------------------------------------------------------------------------|
| Frequency            | 250 Hz and 1,000 Hz, +/- 0.5%<br>with expanded uncertainty in<br>environmental conditions |
| Sound Pressure Level | 114.0 dB re 20µPa (1 Pa = 1 N/m <sup>2</sup> )                                            |

#### Operating Environmental Conditions

|                         |                                                                                                                                         |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Temperature Range       | 14°F to 122°F (-10°C to 50°C)                                                                                                           |
| Pressure Range          | 65kPa to 108kPa (19 to 32 inches of Hg)<br>Approximate 11,500 ft to -2,000 ft<br>elevation relative to sea level<br>(3,500 m to -600 m) |
| Relative Humidity Range | 10% to 90%, non-condensing                                                                                                              |

#### Storage Environmental Conditions

|                        |                                                       |
|------------------------|-------------------------------------------------------|
| Temperature Range      | -4°F to 149°F (-20°C to 65°C)<br>with battery removed |
| Storage Humidity Range | 0% to 90%, non-condensing                             |

Specifications are subject to change without notice.

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#### Conforms to standards

- + Enables confident use in a wide range of applications and conditions
- + Meets the requirements of IEC 60942 (2003) for sound calibrators and ANSI S1.40-2006 (R2011) for sound calibrators

#### One-button simplicity

- + Single On/Off/Function key assures ease of use
- + Makes calibrations fast and trouble-free

#### Designed for efficient operation

- + Low battery icon indicates when replacement is needed, to help prevent service interruption
- + Auto-OFF function powers down 4 minutes after last key press, reducing power drain and maximizing battery life (approximately 18 hours)



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