

3M Personal Safety Division  
3M™ AcoustiCal AC-300 Calibrator



# Simple, One-Step Acoustic Calibrator



## Precise.

- Specifically designed for field calibration of 3M sound level meters and noise dosimeters across a wide range of temperature, humidity and pressure conditions
- Produces two signals, 250 Hz or 1,000 Hz at a sound pressure level of 114 dB

## Quick.

- Simply insert the microphone of your instrument, select the correct signal from the one-button keypad, and calibrate

## Reliable.

- 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

To find out more about 3M Detection Solutions products, see [www.3M.com/Detection](http://www.3M.com/Detection).

The power to protect your world.™



# Calibration

## Made Easy

### One-button simplicity

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

### 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.

### 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).

## Specifications

### 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	

### Physical Characteristics

Size:	3.9" (L) x 2.3" (W) x 1.8" (D) / 10 cm (L) x 5.8 cm (W) x 4.6 cm (D)
Weight:	6 oz (0.17 kg)

### Outputs

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

### Power

Battery type:	1 x 9v alkaline battery (ANSI/NEDA 1604A, IEC 6LR61)
Battery life:	Approx. 18 hours (@ 1 kHz)

### 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) Approximate 11,500 ft to -2,000 ft elevation relative to sea level (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) with battery removed
Storage humidity range:	0% to 90%, non-condensing

Product No.	Description	3M ID
AC-300	AcoustiCal Calibrator	70-0716-0829-6



### Personal Safety Division

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ISO 17025 Accredited Calibration Lab  
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## 3M Detection Solutions: Brilliantly Intuitive

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