

Precision Calibration Accurate Measurements

Quick Field Calibration of Sound Level Meters and Noise Dosimeters

The 3M AcustiCal AC-300 is a precision calibrator designed to help you accurately field calibrate your sound level meters and noise dosimeters. Designed for ANSI and IEC Class/Type 1 meters, the AC-300 makes it easy to calibrate your instrument before and after each series of measurements. It produces two signals, 250 Hz or 1,000 Hz at a sound pressure level of 114 dB, allowing for selection of the mode that best fits your application. A quick and easy process, users simply insert the microphone of the instrument into the AC-300 calibrator, select the signal from its simple one-button keypad, and calibrate.

Conforms to ANSI and IEC Class 1 Calibrator Standards

Its compact, rugged design is engineered for the rigors of field use and conforms to the requirements of the IEC 60942 (2003) for sound calibrators and ANSI S1.40-1983 (R2011): specifications and verification procedures for sound level meters.

The AcustiCal AC-300 features a simple, one-button control that runs on a replaceable 9v battery. It makes it easy to accurately calibrate your instrument across a wide range of temperature, humidity and pressure conditions.



The 3M™ AcustiCal AC-300 Calibrator

Key Features

- Conforms to the requirements of the IEC 60942 (2003) for sound calibrators and the ANSI S1.40-1983 (R2011): specifications and verification procedures for sound level meters
- Produces two signals: 250 Hz or 1000 Hz at a sound pressure level of 114.0 dB
- Long battery life
- Low battery indicator

AC-300 Specifications

CONFORMANCE TO STANDARDS

| | |
|-------------------------|--|
| ANSI S1.40-1983 (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 ²) |

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 |

For More Information in the United States, Contact:

Customer Service: 262-567-9157 Toll Free: 800-245-0779
www.3M.com/detection



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AC-300 Calibrator and Sound Level Meter Attachment

Simply attach the appropriate adaptor to the AC-300, insert the microphone of the sound level meter into the instrument, select the signal level and perform the calibration.

Ordering Information

| Part No. | 3M ID No. | Description | Qty |
|----------|----------------|----------------------|------------|
| AC-300 | 70-0716-0829-6 | AcustiCal Calibrator | 1 ea./case |