

Class 1 Sound Calibrator Nor1256

Nor1256 is a small battery-operated precision class 1 microphone calibrator conforming to IEC60942 and ANSI S1.40. The combination of two different levels and two different frequencies allow both level linearity and frequency linearity to be verified. In addition, the sound calibrator measures the environmental conditions: air pressure, temperature and humidity. The all-digital design with a quartz controlled signal generator ensuring a frequency stability not yet seen on any calibrator on the market today. The reference microphone and control circuit together maintain a constant sound pressure level inside the calibration coupler and automatically adjust for changes in load volume, temperature, humidity, and barometric pressure. The selected level and frequency is clearly indicated on the OLED display. Each calibrator is supplied with an individual accredited calibration certificate.



Features

- Conforms to EN/IEC 60942 (2003) Class 1, and ANSI S1.40–2006
- Ultra-stabile silicone reference microphone
- All-digital quartz controlled signal generator
- Fully compensated for static pressure, humidity and temperature
- Sound pressure independent of microphone equivalent volume
- Robust, compact and battery operated
- 114 and 94 dB @ 1000 and 250 Hz
- Built in display
- Measurement of humidity, temperature and static pressure



The Nor1256 is setting a new standard for sound calibrators by offering two levels and frequencies in combination with measurement of ambient temperature, relative humidity and static pressure. The generated sound pressure levels are 94 dB and 114 dB (re. 20 μ Pa) at 250 Hz and 1000 Hz. The twin frequencies and levels enables linearity and frequency response check of the microphone and allows a wide range of calibration applications to be covered by one unit.

The calibration level, frequency and environmental parameters are displayed on a high contrast OLED display. The calibrator can be used directly on 1" microphones and smaller microphone sizes via adapters. At power on the calibrator generate 114 dB@1000 Hz. A push on the dB button toggles between 94 and 114 dB. Likewise a push on the Hz button toggles between 1000 and 250 Hz. The °C/°F button displays the ambient pressure, temperature and humidity.

Specifications

General	Sound calibrator class 1 according to EN/IEC 60942 Ed. 3 (2003) and ANSI/ASA S1.40-2006 (R2011).
Microphone size:	1/1" and below via adapters
Calibrator frequency (@ Reference conditions):	251.19 \pm 0.30 Hz and 1000 \pm 1.00 Hz
Generated Sound Pressure Level relative to 20μPa (@ Reference conditions):	(114.0 \pm 0.2) dB and 94.0 \pm 0.2) dB
Distortion:	Max 2.0%
Stabilizing time:	20 seconds
Sensitivity to environmental conditions:	As specified for IEC 60942 class 1 / ANSI S1.40.
Environmental range for specified operation:	
Temperature:	-10°C to +50°C / 14°F to 122°F
Relative humidity:	25% to 90%
Air pressure:	65 kPa to 108 kPa
Display type and resolution:	Mono-colour OLED graphical display - 128x64 (WxH)
Additional specifications for the built in ambinet measurement sensors:	
Temperature range:	-10°C to +50°C or 14°F to 122°F
Resolution / Accuracy:	0.1°C / \pm 2°C or 0.1°F / \pm 2°F
Atmospheric pressure:	65 kPa to 108 kPa; Resolution 0.1kPa; Accuracy \pm 0.4 kPa, (for temperature above 0°C)
Relative humidity:	0% to 100%; Resolution 1%; Accuracy \pm 4%, (for temperature above 0°C and humidity in the range 25% to 85%)
Power off:	By power switch or when microphone is removed (may be deactivated)
Battery type:	2 x LR03 alkaline batteries (AAA-size)
Battery life:	> 10 hours
Battery low:	Automatically switching off if battery voltage too low
Weight:	125g / 0.28lb
Size (LxWxH):	97x51.5x41 mm / 3.8x2.0x1.6 "
Accessories included: (may vary if supplied as part of a Sound level meter kit):	1/2" microphone adapter Nor4583, Accredited calibration, 2 x AAA batteries, instruction manual and leather pouch Nor1345
Accessories available:	1/4" microphone adapter Nor4589