



TECHNICAL SPECIFICATIONS

The calibrator **HD9101** satisfies **Class 1 specifications** according to the standard **IEC 60942-1988** and **complies with the requirements of the standard ANSI S1.40-1984**. The calibrator **HD9102** satisfies **Class 2 specifications** according to the standard **IEC 60942-1988** and **complies with the requirements of the standard ANSI S1.40-1984**.

- Diameter of microphones that may be calibrated:
23.77 ±0.05 mm 1”
12.7 ± 0.03 mm 1/2” (with 1/2” adapter mod. 9101040) standard according to IEC 61094-1 and IEC 61094-4
- Stabilization time: 60 sec
- Frequency HD 9101: 1000Hz ± 2%
- Frequency HD 9102: 1000Hz ± 4%
- Sound pressure level HD 9101: 94db/114dB ± 0.3dB
- Sound pressure level HD 9102: 94db/114dB ± 0.5dB (ref.101.3kPa, 23°C ±3°C and 65% RH)
- Total distortion: <0.5%
- Static pressure influence (Ref. to 101.3kPa): ±0.1 dB between 90 kPa and 108kP ±0.3 dB between 65 kPa and 108kP
- Temperature influence: ±0.05 dB between 5°C and 35°C ±0.2 dB between -10°C and 50°C
- Relative humidity influence (ref. to 50%R.H.) ±0.1dB between 10% RH and 90% RH Free from condensation
- Stability (one year, standard use): ± 0.1 dB
- Working temperature: -10°C ÷ +50°C
- Storage temperature: -25°C ÷ +55°C
- Relative humidity: <90% RH
- Equivalent volume of the calibration room (+23°C): 10 cm3
- Power supply: 9V alkaline battery IEC type 6F22
- Battery life: about 15 hours with an alkaline battery
- Housing made of: NORYL NE110 resin
- Dimensions: 60x140 mm, H=46 mm
- Weight: 400 gr.

PURCHASING CODES

HD9101: class 1 calibrator according to IEC609442:1988. Frequency 1000 Hz, sound level 94dB/114dB.

HD9102: class 2 calibrator according to IEC609442:1988. Frequency 1000 Hz, sound level 94dB/114dB.

ACCESSORIES:

- Adapter for 1/2” model 9101040
- 9V alkaline battery IEC 6LF22
- Instructions manual

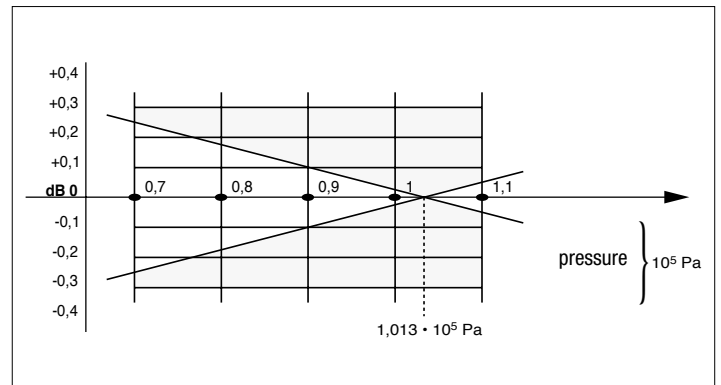
**HD 9101 AND HD 9102
SOUND LEVEL METERS CALIBRATORS**

APPLICATION FIELD

The generator noise level 9101/HD HD 9102 is a portable, battery-powered sound source, suitable for calibration of sound level meters (portable and laboratory) and acoustic measuring stations. And it's possible to calibrate directly microphones 1 / 2 “of mechanical dimensions conform to the requirements of IEC 61094-1 (“Measurement Microphones, Part 1: Specifications for Laboratory Standard Microphones”) and IEC 61094-4 (“Measurement Microphones. Part 4: Specifications for working Standard Microphones)

ADVANTAGES OF CALIBRATORS HD 9101 / HD 9102 ARE:

- With the frequency of the sound signal at 1000Hz can perform calibration of sound level meters with any frequency weighting (LIN, A, B, ...), without introducing correction factors.
- The sound pressure level generated is independent of atmospheric pressure is therefore not necessary to correct the value function of atmospheric pressure.
- The calibrator 9101/HD HD 9102 can be conveniently used in both laboratory and field.
- Ease of use allows the use even by unskilled personnel.



Dependence of sound level on atmospheric pressure

