

NoiseMeters

Model 105 & 106 Acoustic Calibrators



- Advanced performance ensures that both models meet or exceed IEC 60942 accuracy requirements
- Ergonomic and robust design
- Auto correction for temperature and barometric pressure
- Auto switch-off in normal mode and “permanent on” mode available
- Low battery indicator
- 94dB Sound Pressure Level
- Fits 1/2 inch standard microphones
- 1/4 inch microphone adapter available

The Models 105 & 106 are part of the NEW generation of acoustic calibrators that allow you to quickly check the accuracy of your sound level meter or dosimeter, this complying with international regulations and codes of practice.

Great care has been taken during the design process to ensure that the units are comfortable to hold, robust and easy to use, whilst performing accurately throughout a wide range of temperature, humidity and pressure conditions.

In use the calibrator fits over the microphone and produces a stable 1kHz tone at 94dB, as mandated by most standards.

The Model 105 meets the precision grade Class 1 of IEC 60942, while the lower cost Model 106 meets industrial Class 2.

The Calibrators are powered by an easy to access single 9 volt battery, giving many months or even years of operation. An automatic shut-off circuit ensures power conservation should you forget to switch the unit off.

Applications

Most noise related regulations state that the sound level meter is calibrated before each measurement session and checked again after. Noise measurements made for “official” use, such as industrial health and safety or environmental monitoring, are not valid unless correct calibration procedures have been followed.



Operation

Using the Models 105 and 106 makes the calibration process easy. The Calibrator is placed over the microphone and started by pressing the ON button. Ensure the microphone is right inside the calibrator cavity. One older, manual meters the calibration is adjusted, if necessary, using the small screwdriver supplied. One later meters a CAL button is pressed and the internal micro automatically adjusts the meter to correct the readings. The additional “permanent on” mode can be selected to check the integration function of a sound level meter.

Specifications

Both units fully meet the requirements of IEC 60942, the Model 106 at Class 2 and the Model 105 at Class 1 level. The IEC 60942 reference conditions are 25°C, 101.3 kPa pressure and 65% RH.

EU CE Classes	EN 50081-1, EN 50082-1 & EN 61010-1
Pollution Category	Portable Equipment (2)
Sound Pressure	94dB, a pressure of 1 Pascal
Pressure Tolerance	Model 105: 0.2dB. Model 106: 0.4dB
Frequency	1kHz (1000 cps) +/- 0.2%
Distortion	<1% THD
Mic. Diameter	Nominal half inch to IEC 1094-4 Quarter inch adapter also available
Battery	One 9V, IEC type 6F22, PP3
Dimensions	138mm long, 47mm diameter
Weight	225 gm with alkaline battery
Control	Push button start and timer over-ride
Indicator	Green LED shows operation with good battery



Ordering Information

While both models can be ordered separately, they are most often supplied as part of the sound level meter measuring kit, the Model 105 for a Class 1 meter and Model 106 for Class 2 meters. Each calibrator is supplied complete with a certificate of calibration, a used manual and a battery.

NoiseMeters Inc

14781 Memorial Drive, Suite #2174
Houston, TX 77079, USA

Toll Free: 888 206 4377
Fax: 888 584 2230
Email: info@noisemeters.com
Web: www.noisemeters.com

NoiseMeters Limited

West End, Muston, North Yorkshire
YO14 0ES, England

Tel: 0845 680 0312
Fax: 0845 680 0316
Email: info@noisemeters.co.uk
Web: www.noisemeters.co.uk