

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 international standard microphones
- 1/4 inch microphone adapter available

The Models 105 & 106 are part of the NEW generation of Pulsar Instruments acoustic calibrators that allow you to quickly check the accuracy of your sound level meter or dosimeter thus 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 they fit over the microphone of the instrument and produce a stable 1kHz tone at 94dB, the frequency and sound level respectively, as mandated by the standard.

The Model 105 meets the precision of 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 after calibrating.



Applications

Most noise related regulations stipulate that the sound level meter or dosimeter is calibrated before each measurement session and checked again before turning the instrument off. 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 or 106 the calibration process is very easy. The calibrator is placed over the microphone of the sound level meter and started by pressing the ON button, making sure the microphone is right inside the calibrator cavity. On older, manual meters the calibration is adjusted, if necessary, using the small screwdriver supplied. On the later computer controlled meters, a CAL button is pressed and the internal computer automatically adjusts the meter to the correct reading. 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 level, and the Model 105 at Class 1 level. The IEC 60942 reference conditions are 25°C, 101.3kPa pressure and 65% RH.

EU CE classes	EN 50081-1, EN 50082-1 & EN 61010-1
Pollution category	Portable equipment (2)
Sound Pressure	94dB that is a pressure of 1Pascal
Pressure tolerance	Model 105 0.2 dB : Model 106 0.4dB
Frequency	1kHz (1000 cps) +/- 0.2%
Distortion	<1% THD
Microphone diameter	Nominal half inch to IEC 1094-4 Quarter inch adapter also available
Battery	One 9 volt, IEC type 6F22, or PP3
Physical dimensions	138mm long and 47 mm diameter
Weight	225 gm with alkaline battery
Operating 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 full user manual and a battery.



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