

# Model 16

## Digital Sound Level Meter

- Class 2 Digital Noise Meter to IEC 61672-1:2013
- A and C frequency weightings
- Fast and Slow time weightings
- Measures SPL, LMax and LPeak
- Dynamic 30 – 130 dB(A) measurement range

**Pulsar Instruments Model 16 is an entry-level sound level meter for general purpose use whilst meeting the requirements of IEC 61672 to Class 2.**

**It is also an ideal low-cost instrument for those applications where a Sound Level Meter can be useful but a high specification instrument would be too expensive.**

Noise levels can be checked quickly and simply, through the instrument's large and easy-to-read display, which shows the Sound Level (SPL) with the standard dB(A) frequency weighting. Also included is the dB(C) frequency weighting.

A maximum hold function allows the unit to freeze the display showing the highest level measured. This can be used where the allowable level is given in terms of a maximum (LAFmax or LCFmax).

The 'A' weighting filter is the internationally recognised method of replicating the response of the human ear to noise, making the Model 16 the ideal tool for basic noise risk assessments.

The instrument can be calibrated for compliance, using the Model 106 Acoustic Calibrator, when used for industrial noise checks.

The Model 16 has a wide measurement range, measuring the most typically encountered levels from 30dB(A) to 130dB(A).

The Pulsar Model 16 is the perfect solution for basic industrial noise surveys, and ideal for use in the measurement and checks of vehicle noise, workplace noise, fire alarms, audible warning systems and during the installation of sound systems.



# Specification

## Applicable Standards

IEC 61672-1:2013 Class 2

## Measurement Range

30 dB(A) – 130 dB(A)

40 dB(C) – 130 dB(C)

## Frequency Weightings

A & C

## Time Weightings

20dB – 140dB RMS Single Range (143dB peak)

## Display Functions

Normal, Max, Min, C Peak

## Measurement Functions

LAF, LAS, LCF, LCS, LCpk

## Noise Floor

< 25 dB(A) and 35 dB(C)

## Display Flags

Threshold limit, overload, under-range

## Auto-calibration Range

±4.5dB

## Reference Point

94 dB (1kHz), 92.9 dB (8kHz)

## Settling Time

60s

## Display

Backlit 128x64 LCD

## Resolution

0.1 dB

## Electrical Outputs

AC (3.5mm jack) and DC (3.5mm jack)

## Electrical Inputs

5V power in via mini USB

## Battery Life

24 hours

## Microphone

½ pre-polarised elecret condenser

## Operating Temperature

0°C to +40°C

## Operating Humidity

25% - 90%

## Atmospheric Pressure

65 kPa – 108 kPa

## Storage Temperature

-20°C to +60°C

## Dimensions

215mm x 68mm x 32mm

## Weight

220g (including battery)

## DC Output

Voltage 15mV/dB, range 450mV – 1950mV

## AC Output

RMS 2V



## Ordering Information

The Pulsar Model 16 Sound Level Meter is supplied with a 12 month warranty, certificate of calibration, batteries and windshield.

The instrument can be ordered as a complete measurement kit, which includes all the accessories needed to carry out noise measurement.

The Model 16 Measurement Kit contains the Model 16 Sound Level Meter, a Model 106 Acoustic Calibrator, a windshield and carrying case. The kit also includes certificates of calibration along with batteries for both the Sound Level Meter and the Acoustic Calibrator.