

PRO04336 | SONOMETER

Class 1 sound level meter



Class 1 sound level meter and spectrum analyser by third octave bands

Measuring apparatus adapted to the needs of each user since it allows to choose the measurement protocol for the following applications :

- Motor Vehicles (70/157/CEE, 78/1015/CEE et 97/24/CE)
- Activities and Neighborhood,
- Occupational hazards,
- Machines (pressure),
- Machines (power)
- Sound Level Meter (classic)

2 user modes:

- Manual mode with a Step-by-step guidance through protocols used for the realization of the Measurements
- Automatic measurement driven by USB_C/ bluetooth link from Capelec application

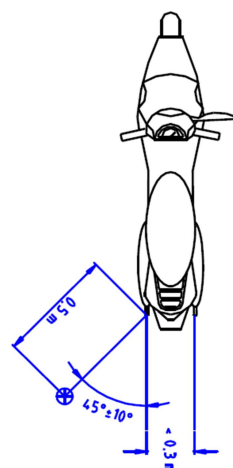


Application Vehicles

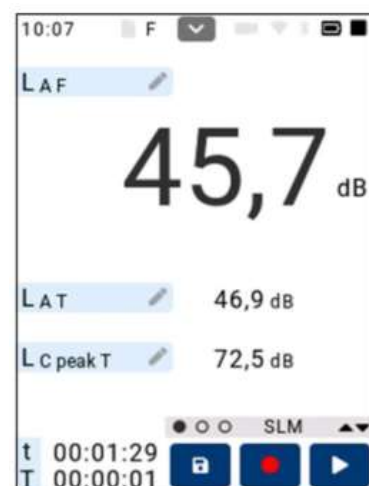
The Vehicles application follows the measurement procedure step by step of noise emitted by motor vehicles stipulated by the Directives **70/157/EEC**, **78/1015/EEC** and **97/24/EC** (automobiles, public transport vehicles, goods transport vehicles, motorcycles, mopeds, three-wheeled vehicles, quadricycles and quads).

When the three measurements of the noise emitted by the motor vehicle have been completed, the final results appear:

- difference between the maximum value and the minimum value (S);
- greater of the three measured values (>);
- linear mean of the three measured values (\bar{x});



Sonometer Measurement screen



Certificats and standards

- IEC 61672-1:2013 classe 1. UNE-EN 61672-1:2014 classe 1
- IEC 61260-1:2014 classe 1, UNE-EN 61260-1:2014 classe 1
- ANSI S1.4:2014/ Part1 type 1, ANSI S1.43:97 (R2007) type1, ANSI S1.11:04 type 1
- DIN 45657:2014 in reference to the Taktmaximalpegel function
- CE Marking. Complies with 2014/35/UE and EU directive EMC 2014/30/UE
- Type examination : 210796001 selon l'ordre ITC/155/2020

Microphone & typical noise

- TYPE: ½" Condenser microphone
- POLARIZATION: 200 V
- NOMINAL CAPACITY: 20 pF
- NOMINAL SENSITIVITY: 43.5mV/Pa

Range : 24 to 137.0 dB (Weight. A); **Resolution** : 0.1dB

Frequency weighting: A, C and Z class according to IEC 61672: class 1

Time weighting : F, S and I class according to IEC 61672: class 1

Static pressure influence: (at 1 kHz and 94 dB or 104 dB)

from 65 to less than 85 kPa: 0.9 dB Max. Error

from 85 to 108 kPa: 0.4 dB Max. Error

Temperature influence :

from -10 to +50 °C: 0.5 dB Max. Error

Humidity influence :

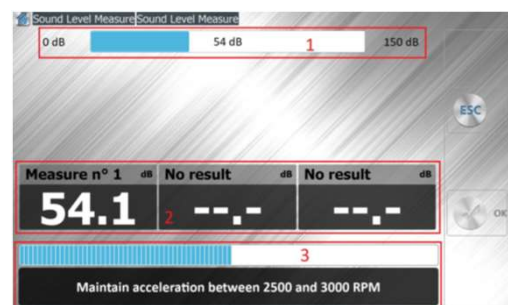
(in the absence of condensation) (at 40°C and 1 kHz)

from 25 to 90 %: 0.5 dB Max. Error

Communication: micro USB / Bluetooth

Dimensions & Weight: 292 x 85 x 25 mm; with batteries 330 g

PC based CAP3600 test procedure Application



Optional class 1 calibrator

generates a sound pressure level of 94 dB inside its cavity at a frequency of 1 kHz. Its ergonomic anti-roll design allows to the user to hold it comfortably, as well as seeing its two LEDs (ON and 94 dB)



For more information
www.capelec.com