IMPULSE SOUND LEVEL METER

PCE-ISM 5



- **adjustable measurement range**
- **measuring function: HOLD**
- **time weighting: F, S and I**
- **frequency weighting: A, C, Z**
- **battery and mains operation**
- **adjustable display brightness**

Our impulse sound level meter is a versatile device that measures and evaluates the sound level time-dependently. The impulse sound level meter records and visualises sound levels within a range from 20 to 130 dB in three manual measurement ranges with a resolution of 0.1 dB. Frequency weightings A, C or Z can be selected in the device. The frequency range of the device is between 20 and 8000 Hz and the impulse sound level meter also has a key for selecting the time weighting between F, S and I.

The impulse sound level meter is powered by four AAA batteries but can also be operated via an external 6 V power supply, which offers the advantage of flexible and mobile use and also enables longer measurement times.

The measurement results are displayed either as numerical values or as a bar graph on a 2.2-inch LCD screen. Our sound level meter has a "HOLD" measurement function and is equipped with a condenser microphone. The device complies with the standards JJG 188-2017 and IEC 61672-1 (Class II) as well as GB/T3785.2-2010.

The impulse sound level meter is used to measure loudness in various environments, e. g. to monitor ambient noise in cities, industrial areas or in the workplace to comply with noise regulations. It is also used in building acoustics as well as at events and in music production to assess sound insulation and sound quality. In industry, it is used in product testing to check the noise emission of machines.

Specification

Sound level	
Measuring range	20 ... 90 dB
Resolution	0,1 dB
Accuracy	±1.5 dB
Sound level	
Measuring range	40 ... 110 dB
Resolution	0,1 dB
Accuracy	±1.5 dB
Sound level	
Measuring range	60 ... 130 dB
Resolution	0,1 dB
Accuracy	±1.5 dB

General technical data	
Analogue output	AC
Measuring functions	HOLD
Connections	1/2 inch microphone
Time weighting	fast (125 ms), slow (1 s), Pulse (35ms)
Frequency weighting	A, C, Z
Frequency	20 ... 8000 Hz
Display type	LCD with backlight
Display size	2,2 Inch
Microphone type	Condenser microphone
Interface	RS232
Standard(s)	IEC 61672-1 (Class II), GB/T3785.2-2010, JJG 188-2017
Tripod thread	3/8 inch
Menu language	English, English (GB)
Protection class (device)	IP20
Power supply	6 V DC
(Rechargeable) battery	4 x 1,5 V AAA battery , Alkali-manganese
Capacity	1200 mAh
Operating conditions	-10 ... 50 °C , 0 ... 90 % RH
Storage conditions	-10 ... 50 °C , 0 ... 90 % RH
Dimensions (L x W x H)	230 x 65 x 25 mm
Other dimensions	Microphone diameter - 1/2 inch
Weight	181 g