NOISE SPECTRUM ANALYZER

PCE-NSP 10



- **measurement functions: HOLD, MAX, LEQ**
- **time weighting: F, S and I**
- **octave band measurement**
- **frequency range: 20 ... 8000 Hz**
- **frequency weighting: A, C and Z**
- **battery and mains operation**

Thanks to its wide measurement range and versatile functions, our Decibel Meter is suitable for noise measurements in industry, the environment, occupational health and safety, at events and in research. Our Decibel Meter records and visualises sound levels within a range from 20 to 130 dB in three manual measurement ranges and offers various measurement functions such as Hold, Max and Leq value. The Decibel Meter supports time weighting F, S and I as well as frequency weighting A, C and Z and can record sound within a frequency range from 25 to 130 dB.

With operation modes for Leq, 1/1 and 1/3 octave filter measurements, it covers a wide range of measurement requirements. The internal memory function enables automatic storage of up to 12 data groups for octave band measurements. In addition, up to 800 individual measurements and regular measurements can be saved over a period of up to 6 days. These functions make Decibel Meter s indispensable tools in acoustics to ensure both the protection of people and the quality of rooms and products. An RS232 interface can transfer the data via the optional software. An AC output is also available.

The Decibel Meter fulfils several standards, including IEC 61672-1, GB/T3785.2-2010 and IEC 1260-2014, all in class II, making it the ideal choice for standard-compliant measurements. The Decibel Meter is supplied with a windscreen in a practical carrying case.

Specification

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

General technical data	
Outputs	AC signal (3.5 mm jack)
Measuring functions	HOLD, MAX, Leq
Measuring functions (additional information)	Working mode selection between: - Leq - 1/1-octave filter measurement - 1/3-octave filter measurement
Connections	1/2 inch microphone
Time evaluation	fast (125 ms), Straight (1 sec.), impulse (35ms)
Frequency weighting	A, C, Z
Frequency	20 ... 8000 Hz
Display Typ	LCD with illumination
Display size	2,2 Inch
Storage medium	Internal memory
Storage capacity	800 Data records
Storage information	- Frequency octave band measurement: Automatic storage of up to 12 data groups - Integration and statistics function: Storage of up to 800 individual measurements
Microphone type	Condenser microphone
Interface	RS232
Norm(en)	IEC 61672-1 (Class II), GB/T3785.2-2010, JJG 188-2017, GB/T 3241-2014 (Class II), IEC 1260-2014 (Class II)
Menu language	English (US), English (GB)
Protection class (device)	IP20
Power supply	6 V DC
Battery/battery	4 x 1,5 V AAA Battery (1,5V) , Alkali-Manganese
Battery 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
Weight	186 g