SOUND LEVEL METER

PCE-FST-100-2010-NMS



- **Sound level: 30 ... 120 dBA**
- **Frequency range: 20 ... 12500 Hz**
- **Response time: ≤ 2 s**
- **Output: RS-485**
- **Condenser microphone**
- **Protection class: IP65**
- **Wall mounting**

The sound level meter is ideal for all applications where ambient noise or noise levels need to be monitored precisely. Whether in urban noise measurement stations, on factory floors, in schools or in research projects - this sound level meter provides reliable measured values to fulfil safety and comfort requirements. The sensor covers a measuring range of 30 ... 120 dBA and operates in the frequency range from 20 ... 12500 Hz. The resolution is typically 1 dB, which is sufficient for most practical applications, while the accuracy is ±2% of the measuring range plus ±0.5 dB, based on the reference tone of 94 dB at 1 kHz. The sound level meter therefore provides a precise and reliable basis for all acoustic measurements.

The specific technical features include a digital interface via RS-485 with Modbus RTU, which enables easy integration into existing systems. The sensor utilizes a high-quality condenser microphone with A-weighting, which takes into account the human sense of hearing. The response time is a maximum of 2 seconds. The sound level meter is suitable for wall mounting and has a weatherproof housing that is also designed for outdoor use. The device is particularly interesting for companies, authorities or research institutions that require continuous monitoring of noise sources, for example in production facilities, traffic controls or urban noise projects.

Specification

Sound level	
Measuring range	30 ... 120 dBA
Resolution	1 dBA
Accuracy	2% FS ±0.5 dB (related to 94 dB @ 1 kHz)

General technical data	
Outputs	RS485
Cable length	1 m
Time weighting	slow (1 s)
Frequency weighting	A
Frequency	20 ... 12500 Hz
Microphone type	Condenser microphone
Response time	2 s
Protection class (device)	IP65
Power supply	10 ... 30 V DC
Operating conditions	-20 ... 60 °C , 0 ... 80 % RH
Storage conditions	-20 ... 80 °C , 0 ... 80 % RH
Dimensions (L x W x H)	150 x 133 x 42 mm
Weight	230 g