Product sheet

Noise sensor

Simple integration, calibrated solution

Noise is a common problem in industrial sites and urban agglomerations. Human health is negatively affected primarily by long-term exposure to noise. Ensuring long-term certified measurement is usually costly and difficult. The noise sensor as a stand-alone or integrated solution can monitor and provide high-precision calibrated noise data either on-line into the sensing unit.

Measured quantities

Maximum noise level 50-100 dB* (A) SPL

Average Noise Level 50-100 dB* (A) SPL Time RMS Calculation RMS 1s (SLOW Mode)
Measurement Accuracy +/- 1dB (A) SPL

Each sensor calibrated

*For each reading interval, the maximum and average noise level are calculated

Power and interface

Supply voltage 4-13 V DC

Consumption 40 mA

SPI interface with 3.3 V logic

Box

Housing adapted for outdoor installation

Shielding to ensure minimal interference to the analogue part

Advanced design with DSP

Data from the analogue part of the sensor is processed by digital signal processor to ensure that measurement meets the requirements of the technical standards for noise level measurement. For specific customer needs, it is possible to customize data processing and adjust the response to the type of noise (e.g. gunshot).

Calibration and precision

Each individual sensor is calibrated so that the measurement deviation does not exceed +/- 1 dB (A) SPL in the entire dynamic range of the sensor. Calibration is performed under controlled acoustic conditions and using a B & K Photon + acoustic analyzer and certified measuring microphones.

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