NoiseMeters
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SE3-320W Noise Processor

Features

- Weatherproof for Outdoor Noise Monitoring
- Minimal or no display of noise levels
- Long term sound level monitoring, data transfer by USB memory stick
- Link to your monitoring or process control system (DC or current loop output)
- Suitable for dusty environments

Applications

- Outside Factories
- Industrial Sites
- Entertainment venues

Overview

The Outdoor Noise Processor mounts on the wall to monitor and record the sound levels. The digital display usually shows the current sound level, but this can be switched off or even set to display the time.

Its purpose is to continuously monitor the sound levels, recording the sound level for download to a computer via memory stick. It can also be linked directly into an existing process control system via the 4-20mA Current Loop or the DC output. For a long term outdoor noise monitor, output to a control system is the most common way of using it.

Data Logging

The SE3-320W has a large internal memory, to which it can store various sound level parameters every second. It can store the Fast or Slow sound level with "A" or "C" frequency weighting. You can select whether it stores all of these parameters or just the ones you need. When you plug a memory stick in the SE3-320W will automatically transfer the measurements on to it. You then plug the memory stick into your computer to load the measurements into the SoundEar software.

Connect to Process Control Systems

The SE3-320W can be linked in to existing monitoring and process control systems, or you can develop your own monitoring system, using either the DC output or Current Loop output.

4-20mA Current Loop

This is a standard method of electrical signalling, used by many process control systems, with the benefit that the signal is not degraded by voltage drops in the wiring. For more information please visit the **Outputs** page.

0-10V DC Output

The DC Output from the Outdoor Noise Processor provides the measured sound level over a range of 0 to 10V DC, which can be measured using a basic A-D converter. For more information please visit the **Outputs** page.

Display

The digital display on the SE3-320W usually shows the current sound level, updating every second. However, it can be set to any of the following:

- Slow sound level, dB(A)
- LAeq,1s (average sound level, Leq, every second)
- Time
- Off (display is blank)

Turning the display off or displaying the time can be useful if you don't want to show the sound level in decibels.

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Specifications

Technical Specifications

Frequency Range	20Hz to 20kHz
Measuring Range	30 to 120 dB
Deviation	± 0.5 dB
Frequency Weighting	"A" ("C" weighted Peak)
Time Weighting	Fast and Slow
Digital Display	dB(A) Slow, LAeq, Alarm settings, Clock
Outputs	"A" weighted, 0-10V or 4-20mA
USB Ports	1. Micro USB (power and PC connection)2. USB Controller (for USB memory stick connection)
Internal Memory	16MB (128MBit) - 600 days
Cabinet	Polycarbonate
Dimensions	150 x 290 x 75 (with microphone and windshield fitted)
Weight	820g, 1lb 13oz
Power	24 VDC (screw terminal, cable already fitted)
Acoustic Standards	IEC61672-2-2002 Class 2, ANSI S1.4 Type 2

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Web Sites

Main site:
https://noisemeters.ca

Product shortcut:
https://noisemeters.ca/p/se3-320w/

Tech Support:
https://support.noisemeters.com