

NoiseMeters

LiveNoise
LN2-SE Noise
Monitor
User's Manual

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Introduction

This manual covers the LiveNoise LN2-SE Noise Monitor, version 2.x.x.

The LN2-SE is a noise monitor that connects to the LiveNoise cloud server, becoming part of a LiveNoise Monitoring System. The LN2-SE noise monitor provides the following:

- Data Logging of:
 - o Noise Profile - Leq,1s - the average A weighted and C weighted sound level every second
 - o Periodic Noise Parameters, Leq, Lmin, Lmax, L5, L10, L50, L90, L95, L99 over 5, 10, 15, 30 and 60 minute periods, with A and C weighting and Fast/Slow response
 - o Threshold triggered noise alarms
- Live noise feed via your LiveNoise account

The noise monitor is designed to be secured to a wall using four screws. It has protection against rain and dust and so can be mounted inside or outside for long periods of time.

LiveNoise Account

Displays of live sound levels and long term noise reports are all accessed using your LiveNoise account.

You can access your LiveNoise account at:

<https://account.livenoise.net>

You will need your account name, user name and password, which will be sent to you when the account is set up.

Once logged in you can access the user manual by clicking the ? button at the top-right.

Noise Monitor Installation

The LN2-SE enclosure can be mounted using four screws, one at each corner.

Please note that when using the standard power adapter and power cable, the unit needs to be mounted within 10m (or 32 ft) of an indoor power socket. See **Power Connection** section for more details.

Wall Mounting

Remove the front panel by undoing the four screws.

You can now access the four screw holes that are used to mount the unit to the wall.

The picture shows the noise monitor with its front panel removed.



Power Connection

The noise monitor is provided with 10m (32ft) of cable already installed through a weatherproof gland at the bottom of the enclosure. The connector at the end of this cable and the power adapter itself **are not weatherproof and should be mounted indoors.**

Plug it in and switch on. After a brief startup time the display should start showing the sound levels. The monitor is now recording and storing noise measurements. It will also be trying to connect to the cloud server, but will not succeed until you have connected it to the network.

Network Connection

The noise monitor needs to connect to the Internet using your wired or wireless network in order to send measurements to the cloud server.

Wired Ethernet Connection

The noise monitor has an RJ45 Ethernet Port on the bottom of the box.

For indoor use, a standard Ethernet cable can be used.

For outdoor use you need either a weatherproof Ethernet cable of the correct type (to connect to the threaded socket) or you can use a standard cable with a weatherproof RJ45 cable housing.

Once connected and powered up the noise monitor will start sending noise measurements to the server and will show up in your LiveNoise account.

WiFi Connection

As the LiveNoise devices have no display, setting up Wi-Fi network names and passwords is a little

more difficult. Two options are available and the first is by far the easiest:

1. Temporary Wired Connection

Connect the Noise Monitor to your network using an Ethernet cable, as described above in “Wired Ethernet Connection” and apply power.

Visit your LiveNoise account at:

<https://account.livenoise.net> and log in. Select the **Settings | Noise Monitors** option. You should see the new noise monitor listed.

Using the **Configure Wi-Fi** option you can select the network to use and provide the network password.

Please note that network names and passwords are case sensitive.

2. Using a Memory Stick

The second method is to put your network settings on a memory stick and then insert it into the Noise Monitor to configure it.

Visit your LiveNoise account at:

<https://account.livenoise.net> and log in. Select the **Settings | Noise Monitors** option.

Click the **Config by Memory Stick** button. Enter the network name and password (case sensitive) and click the **Create Config File** button.

Right-click on the **Download Config File** link and save it directly to the root directory of the memory stick.

Remove the memory stick from your computer – you may have to inform the operating system that you are doing this, to ensure the file is written correctly. This is usually done by an icon on your taskbar but this is Operating System dependent.

Apply power to the noise monitor and allow two minutes for it to fully start up. Insert the memory stick into the noise monitor's USB port, leave it in place for 20 seconds and remove it again. The noise monitor will now try to connect to your wireless network.

The memory stick contains your network name and password and so should be erased or stored securely.

Internet Communications

In order to function, the noise monitor communicates with our cloud server, sending real-time noise measurements, long term noise

reports and diagnostic information. It will only work if the noise monitor has access to the Internet and permission to communicate.

The Noise Monitor uses secure WebSockets, sent on Port 443 to our server at account.livenoise.net

These requests look similar to normal browser requests and are commonly used by browser based applications, so they will pass through most networks without problems.

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