NoiseMeters

LiveNoise Terminal

LN2-320 Noise Processor

LN2-EAR Noise Sign

LN2-IND Industrial Sign

Installation and User's Manual

Manual v1.0.0 for LN2 v2.0.x

Contents

Introduction

This manual covers the LiveNoise LN2-320, LN2-EAR and LN2-IND Noise Monitors, version 2.0.x.

These noise monitors connect to the LiveNoise cloud server, becoming part of a LiveNoise Monitoring System. The noise monitors provide 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

This noise monitoring interface and the associated noise warning signs are for indoor use and are not protected against the weather or extreme levels of dust.

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 Noise Warning Sign and the LiveNoise Interface unit are in separate enclosures which can be mounted on a wall.

The LiveNoise Terminal connects to the Noise Warning Sign via a USB to Micro USB cable, and to the 5V power adapter via a similar USB to Micro USB cable. Shorter cables can be used, but it is unlikely that you will get reliable operation with cables longer than those supplied.

LN2-EAR and LN2-IND Models

The Noise Warning Sign can be mounted on a wall using a single screw, similar to hanging a picture.

It can also be mounted on an optional VESA wall mounted using the four threaded holes that can be seen on the image above.

LN2-320 Model

First remove the mounting plate from the back of the Noise Processor by first removing the security screw.

Mount the plate to the wall, attach the Noise Processor and fit the security screw.
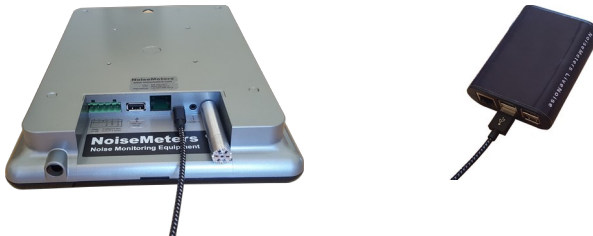
LiveNoise Terminal

The LiveNoise Terminal should be mounted within reach of the Noise Warning Sign and within reach of a power outlet. It can be wall mounted or it can sit on a desk. This is the part that should be in an area with a good WiFi signal or in range of a wired Ethernet connection.

Connection – Noise Sign to Interface Box

Connect the Noise Warning Sign or Noise Processor to the LiveNoise Terminal using one of the USB cables that are included. Due to the connectors available it is possible to connect this cable the wrong way round. This will not cause any damage, but the system will not operate.

As shown below, the smaller connector fits into the Noise Sign/Processor and the larger connector fits into the LiveNoise Terminal.

The LiveNoise Terminal has three spare USB ports. You can use any of these to connect to the Noise Sign.

If you are mounting the Interface unit close to the Noise Sign then a shorter USB to Micro USB cable can be used to make the installation more tidy.

Power Connection

Connect the remaining USB cable from the supplied power adapter to the LiveNoise Terminal. The larger connection goes to the power adapter and the smaller one goes to the LiveNoise Terminal.

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 LiveNoise 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 LiveNoise Terminal has an RJ45 Ethernet Port on the bottom of the box.

A standard Cat5e Ethernet cable can be used.

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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