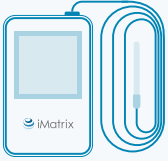# SETUP GUIDE

iMatrix NEO-1D Sensor

Step 1
Remove a protective cap from your sensor probe.

Step 2
Download iMatrix app.

Step 3
Open the app and click on the + icon in the top-right corner of the screen.

Step 4
Scan QR code on the front side of your sensor.

Step 5
Follow instructions on the screen of your phone.

Step 6
Customize your NEO-1DP, give it a unique name and take a photo. (optional).

Step 7
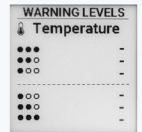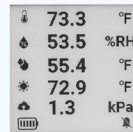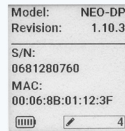View your sensor measurements.

Step 8
NEO-1DP Sensor allows you to view different screens.

To wake the NEO-1DP press button once.

To switch between screens press button again.

Note: It takes ~ 2 seconds to refresh or switch screens

To turn OFF your NEO-1DP press button on the back of the device for 3 seconds.

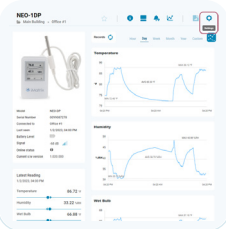## GET MORE FROM YOUR NEO-1DP SENSOR WITH THE WEB INTERFACE

Step 9
On your computer, go to cloud.imatrixsys.com/registration to create an account and store data.
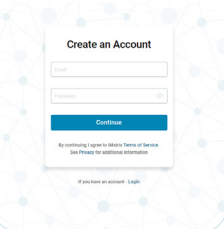
Step 10
Access settings interface by selecting the cogwheel Icon in the top right corner of a sensor dashboard.

Step 11
Give your NEO-1DP a unique name and take a photo (optional).

Step 12

In Advanced view you can enable or disable **Displayed Parameters** by selecting and deselecting checkbox near each parameter.
You can also change order of displayed parameters. To do this click and hold Drag icon (⠿) and move the parameter up and down the list.

▦ *Top 2 tracked parameters will be visible in the tile view*
☰ *Top 3 tracked parameters will be visible in the list view*

Displayed Parameters

- ✓ 🌡 Temperature ⠿
- ✓ 💧 Humidity ⠿
- ○ 💧 Dew Point ⠿
- ○ 💨 Air VPD ⠿
- ○ 🌡 Heat Index ⠿
- ○ 🌡 Wet Bulb ⠿
- ○ ▦ Battery Voltage ⠿

▦ Top 2 tracked parameters will be visible in the tile view
☰ Top 3 tracked parameters will be visible in the list view
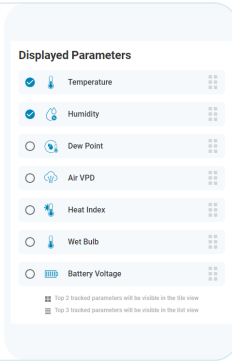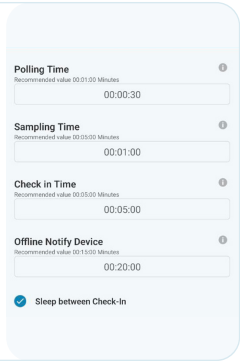
Step 13

Sensor Performance can be customized In Advanced View of sensor settings.
Polling time is how often the Temperature and Humidity are read.
Sample time is how often this data is saved on your device into onboard Flash memory.
Check-In time is how often the sensor connects to your iMatrix Micro gateway or your Virtual gateway to upload data to the Cloud for graphing and storage.
Sleep between Check-In will stop broadcasting BLE beacons
These settings affect the battery life. We recommend the default settings.

Polling Time ⓘ
Recommended value 00:01:00 Minutes
00:00:30

Sampling Time ⓘ
Recommended value 00:05:00 Minutes
00:01:00

Check in Time ⓘ
Recommended value 00:05:00 Minutes
00:05:00

Offline Notify Device ⓘ
Recommended value 00:15:00 Minutes
00:20:00
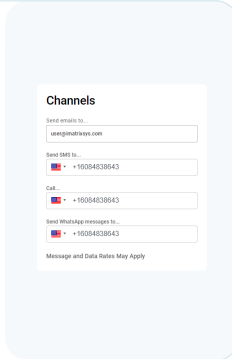
✓ Sleep between Check-In

NOTIFICATION MANAGEMENT

Step 14

To recieve notifications and alerts select Dashboard – Settings – Notifications and Reports.

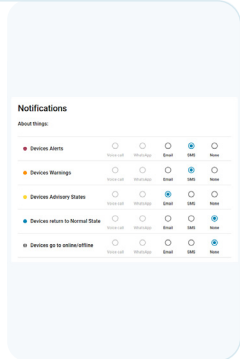In "Channels" box add your e-mail, phone number and number for SMS messages to receive Alerts from your sensor.

Channels

Send emails to...
user@imatrixsys.com

Send SMS to...
🇺🇸 ▾ +16084838643

Call...
🇺🇸 ▾ +16084838643

Send WhatsApp messages to...
🇺🇸 ▾ +16084838643

Message and Data Rates May Apply

Step 15

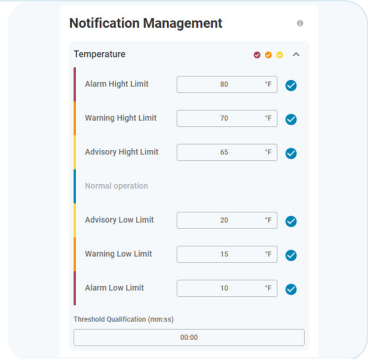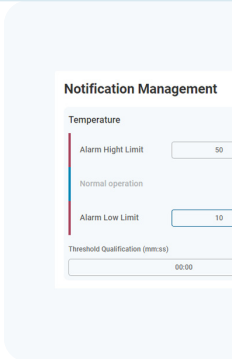You can select to which channels you want to receive notifications about different types of events.

Note: To receive Alerts in real-time, you need to be within Bluetooth range with the App running or use an iMatrix Wi-Fi Micro Gateway.

Notifications

About things:

	Voice call	WhatsApp	Email	SMS	None
● Devices Alerts	○	○	○	●	○
● Devices Warnings	○	○	●	○	○
● Devices Advisory States	○	○	●	○	○
● Devices return to Normal State	○	○	○	○	●
⚙ Devices go to online/offline	○	○	○	●	○

Step 16

Select the sensor for which you want to set up an alert notification and click the cogwheel Icon in top right corner.

In the Basic view you can set your **Alarm High** and **Alarm Low** limits, and **Threshold in time** for each parameter separately.
If you need more alert levels (up to 6) you can use Advanced view.

Notification Management ⓘ

Temperature 🔴 ︿

Alarm Hight Limit   50   °F ✓

Normal operation

Alarm Low Limit   10   °F ✓

Threshold Qualification (mm:ss)
00:00

Notification Management ⓘ

Temperature 🔴🟡🟠 ︿

Alarm Hight Limit   80   °F ✓
Warning Hight Limit   70   °F ✓
Advisory Hight Limit   65   °F ✓

Normal operation

Advisory Low Limit   20   °F ✓
Warning Low Limit   15   °F ✓
Alarm Low Limit   10   °F ✓

Threshold Qualification (mm:ss)
00:00

PRO TIPS

- To turn ON your NEO-1DP press the button once. The unit will turn on, the blue LED will be blinking for 60 seconds and then stop blinking.
- To turn OFF your NEO-1DP press button on the back of the device for 3 seconds. Red LED on the front will blink 3 times, and then the display will show a "SLEEP" shut-off state.
- You can replace the two 1200mAh 3.6V ER14250 batteries by removing four screws on the bottom of the unit in the four corners underneath the back label.
- For instant readings, force a wake-up by pressing the button on the back of the NEO-1DP once. This will wake the unit for 1 minute, the blue LED will blink, and then it will default to your performance settings.
- The battery level and the number of records stored on the device are shown in the bottom part of the display. Once the app running the Virtual Gateway or the iMatrix Micro Gateway connect to the device, it will download all records and upload them to the Cloud for graphing, reports, and alerts.
- If you setup an alert and it is triggered, the NEO-1DP LED will blink Red and the device will make a beeping sound. To stop the alarm, change the setting in the app or web interface, or turn the unit off.

AUTOMATE MONITORING PROCESS

You can use **"Virtual Gateway" function** built in the iMatrix mobile app to upload data to the iMatrix Cloud.

For better performance we recommend using **iMatrix Wi-Fi Micro Gateways** to scan all your sensors and upload the data over Wi-Fi to the Cloud automatically.

If you have problems with your iMatrix device setup, contact support: **support@iMatrixsys.com**