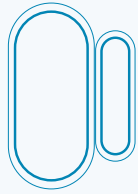


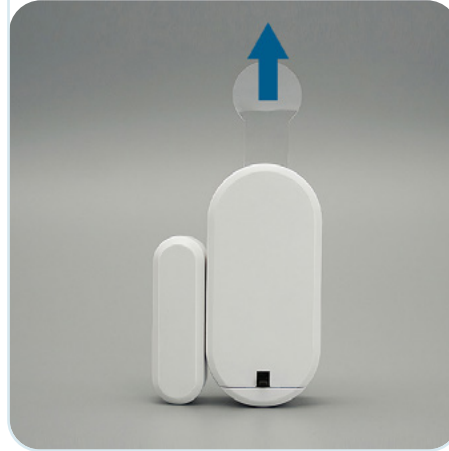
## Setup Guide

# iMatrix Sentry-1 Sensor



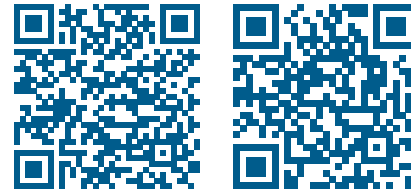
## Step 1

Remove protective film from Sentry-1 battery.



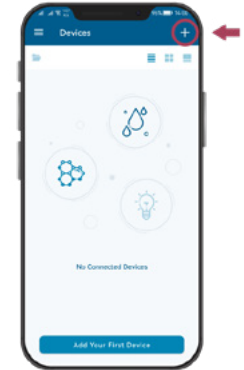
## Step 2

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 Sentry-1, give it a unique name and take a photo.



## Step 7

View your sensor measurements.



# Get more From Your SENTRY-1 Sensor With the Web Interface

## Step 8

On your computer, go to [cloud.imatrixsys.com/registration](https://cloud.imatrixsys.com/registration) to create an account and store data.

**Create an Account**

Email

Password

**Continue**

By continuing I agree to iMatrix Terms of Service. See Privacy for additional information

[If you have an account - Login](#)

## Step 9

Access settings interface by selecting the cogwheel Icon in the top right corner of a sensor dashboard.

**Sentry-1 #1 Blue**

301 West Building - Storage

Model: SENTRY-1  
Serial Number: 0313022845  
Connected to: Storage  
Last seen: 20/10/2023, 05:43 PM  
Battery level: 95%  
Signal: -92 dBm  
Online status: Online  
Current firmware version: 1.020.000

Latest Reading: 20/10/2023, 05:43 PM

State: 1 Count  
Open Duration: 0 Seconds  
Open Count: 0 Count

## Step 10

Customize your Sentry-1. Give it a name, for example, "Refrigerator Door" and upload a picture of that Location.

**Customization**

Specify a device naming:


Refrigerator Door


Upload a cover image:


# Advanced Settings

## Step 11






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**

-  State
-  Tamper
-  Open Duration
-  Open Count
-  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 12

**Open State** - Door is open or closed

**Open Events** - Number of times a door was open in a given period per hour, day, month, year.






**Open Duration** - How long the door is open in a given period, seconds, min, hour and day's.



**Tamper** - The state of the security tamper switch on the back of the Sentry-1. Battery Voltage

### Note:

*The Sentry will Alert on Open events and log the event. If you want to receive an Alert SMS or Text you need to create a notification.*

**Displayed Parameters**

-  State
-  Tamper
-  Open Duration
-  Open Count
-  Battery Voltage

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

# Notification Management

## Step 13

To receive 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...  
usor@imatrixsys.com

Send SMS to...  
+16004838643

Call...  
+16004838643

Send WhatsApp messages to...  
+16004838643

Message and Data Rates May Apply

## Step 14

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:

Devices Alerts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Devices Warnings	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Devices Advisory States	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Devices return to Normal State	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Devices go to online/offline	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

## Step 15

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** limit, and **Threshold in time** for each parameter separately. If you need more alert levels (up to 3) you can use Advanced view.

### Open State:

You can receive and Alert if the Door is open or closed

**State**

Alarm High Limit  Open

Warning High Limit  Unset

Advisory High Limit  Open

Normal operation  Closed

Threshold Qualification (mm:ss)  
00:00

### Open Duration:

You can receive and Alert if the Door is open for a certain period of time.

**Open Duration**

Alarm High Limit  1:00 Seconds

Warning High Limit  Set a limit Seconds

Advisory High Limit  Set a limit Seconds

Normal operation

Threshold Qualification (mm:ss)  
00:00

### Open Count:

You can count the number of times a Door is opened.

**Open Count**

Alarm High Limit  1 Count

Warning High Limit  Set a limit Count

Advisory High Limit  Set a limit Count

Normal operation

Threshold Qualification (mm:ss)  
00:00

### Open Tamper:

You can count set an Alert If the Sentry-1 is removed from the door.

**Tamper**

Alarm High Limit  Open

Warning High Limit  Unset

Advisory High Limit  Open

Normal operation  Closed

Threshold Qualification (mm:ss)  
00:00

## Pro Tips

- The unit sleeps to save battery, so if you want instant readings, force a wake-up by pressing the magnet to the side of the Sentry-1 **3 times in less than 3 seconds**.
- When mounting the Sentry-1 make ensure the the gap between the magnet and side of the sensor is less than 10 cm.
- The side of the Sentry with a small plastic line is the active side that the magnet should be aligned with.

## Automate Monitoring Process

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

### Note:

- The App needs to be running and within Bluetooth range to connect to the device and upload the stored data.
- The virtual gateway will upload data based on check-in time, so it can take up to 10 minutes to check in the sensor data and upload it to your account for graphs.

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.

### Note:

- Micro Gateway will automatically update your sensors with the iMatrix latest firmware.
- You can use multiple Micro Gateways for a large facility to ensure wireless coverage.
- The sensor’s location, relative to your smartphone or Micro Gateway, is required for proper operation. Correct placement will ensure the signal is within range, and an RSSI greater than -89db is best.

