MAKE-YOUR-OWN SENSOR WORKSHOP

ASSEMBLY GUIDE

Part One:
Preparation

a LinkIt™ Smart

b PM2.5 Sensor

c AC Adapter

d Solar Radiation Shield
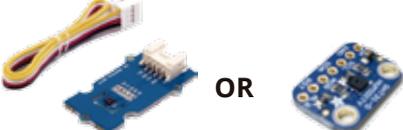
e OR

Temperature & Humidity Sensor

Part Two:
Plug in the sensors

1
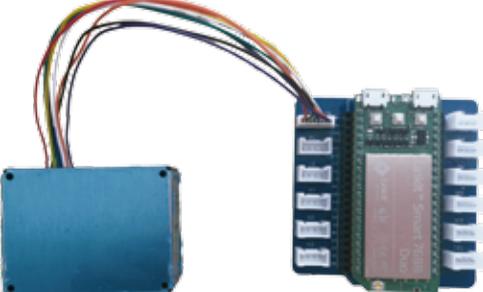
Schematic to connect LinkIt Smart (a) with PM2.5 sensor (b)

2

I2C
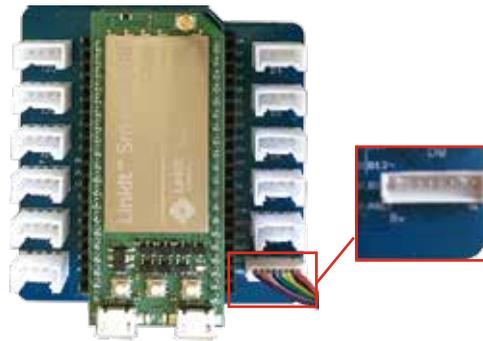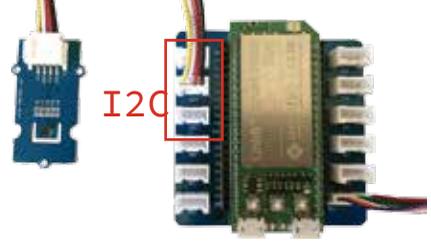
Humidity & Temperature sensor(e) connects to any I2C port(a)

3
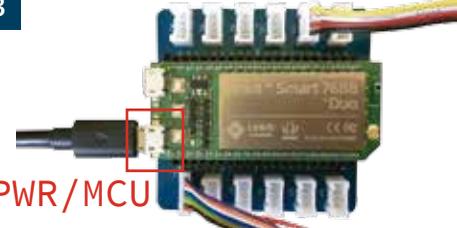
PWR/MCU

Plug the device into the electrical outlet (c)

Part Three:
Wifi Connection

4 On your WiFi-connected phone/laptop/computer, select and connect to "SensorUp_IOT_XXXXXX" from your available WiFi networks.

SensorUp_IOT_1C461D

5 Go to http://192.168.100.1/ Note that these substeps need to be completed relatively quickly. No need to rush, but avoid delays or pauses.
Account: root
Password: sensorupgis

Account
root(default)
Password *
sensorupgis
SHOW PASSWORD
SIGN IN
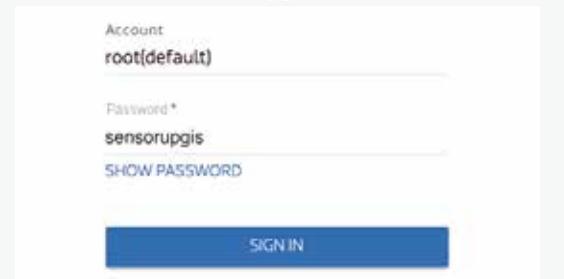
6
❶ Choose "Network" tab
❷ Choose "Station Mode"
❸ Select your regular WiFi from the drop down list
❹ Enter your WiFi password
❺ Click "Configure & Restart"

System Information | Network
Network setting
○ AP mode   ● Station mode
sensorup (100 %)
REFRESH
Password
SHOW PASSWORD
CANCEL | CONFIGURE & RESTART
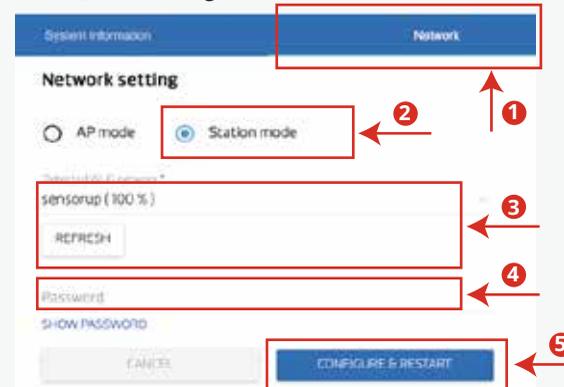
Note:
Go to http://smartconnect.sensorup.com to confirm your sensor is working. This may take up to 10 minutes.

Part Four:
Radiation Shield
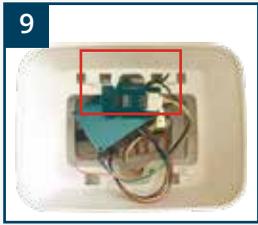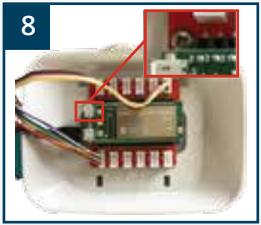
7   Remove *five* plates from the bottom of the solar radiation shield.

8   Position the remaining plate so that the larger holes are at the top. Remove the screw at the top left, and use it to fasten the breakout board to the shield via the hole near the "HOST" label.

9   *Reattach one* of the five plates. Then use the twist tie to attach the temperature & humidity sensor(e) to *one* of the unattached plates. *Reattach that* plate.

10   *Reattach one* of the remaining plates. Then place elastics onto the *final* plate, and *reattach*.

11   Position the PM2.5 sensor so that it fits snugly into the space along the long edge of the shield, between the final two plates.

Done

Check to make sure that the LinkIt Smart (with breakout board), the temperature & humidity sensor, and the PM2.5 sensor are not contacting each other.

AT HOME ONLY

12   Place the device closer to the router (or the router closer to the sensor), or improve the device's line-of-sight to the router.

13   Repeat the steps in *Part Three* to connect the sensor to your home wifi. When you're done, change your computer/phone/laptop WiFi back to your home network (yours may do this automatically).

14   Go to http://smartconnect.sensorup.com to confirm your sensor is working. This may take up to 10 minutes.

✔ If it's working, your sensor ID (see sticker on device), will be in the list http://smartconnect.sensorup.com, **with readings in the last few minutes**.

✖ If your sensor ID is NOT listed, please check the troubleshooting guide. If that doesn't work, email smartcities@sensorup.com.

15   Place the device in a good spot outside, ensuring you check off all these targets:

✔ Outside.

✔ Decent airflow. Not windy, but not stagnant.

✔ Away from contaminant sources such as exhaust vents or BBQs.

✔ Access to electrical power (outlet within reach of cord or extension cord).

✔ Within WiFi range.

Note:
Your device will be reporting readings to smartcanada.sensorup.com by now. But, the location may take up to one business day to appear correctly.

SENSOR UP OUR CITIES

Imagine we could see the air around us...

We are SensorUp. We design and deploy sensing platforms that enable smart cities. Our platform uncovers actionable insights about the world we live in.

Working with our partners, we make our cities a better place to live by connecting data, people, and knowledge.

Let's sensor up our cities together and reveal actionable insights. Because we are smart citizens for smart cities!

Visit smartcities.sensorup.com to learn more.

Thank you for attending the Make-Your-Own sensor workshop today! We hope that you found it informative, worthwhile, and enjoyable.

We're looking forward to seeing you at our next event!

CONTACT

info@sensorup.com

sensorup.com

@sensorup

Make-Your-Own
Sensor Workshop

Assembly Guide