

# Xiaomi Mijia Temperature and Humidity Sensor

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- ????????????
- ???LYWSD03MMC

## Raspberry Pi OS

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```
❗ ???????????????????????????
```

```
bluetoothctl
> scan on
> devices
> scan off
> exit
```

## ?? Python module

```
❗ NOTE: ?? Pi OS ??? Python venv ??? pip ????????
```

```
# ????? user ????? (non-root)
mkdir mitemp
cd mitemp
python -m venv env
source env/bin/activate
which python
# ????? pip ?????
pip install --upgrade pip
# ?????
```

```
sudo apt install libglib2.0-dev
pip install bluepy
pip install lywsd03mmc
pip install paho-mqtt
```

❗️ ???ERROR: Could not build wheels for bluepy, which is required to install pyproject.toml-based projects

???

```
sudo apt install libglib2.0-dev
```

## Telegraf

### Option 1: Python script

?????

```
mv /etc/telegraf/telegraf.conf /etc/telegraf/telegraf.conf.orig
telegraf --input-filter exec --output-filter influxdb_v2 config > /etc/telegraf/telegraf.conf
```

#### telegraf.conf

```
[[outputs.influxdb_v2]]
  urls = ["http://127.0.0.1:8086"]

  ## Token for authentication.
  token = "YOUR-TOKEN"

  ## Organization is the name of the organization you wish to write to.
  organization = "YOUR-ORAG"

  ## Destination bucket to write into.
  bucket = "YOUR-BUCKET"

  ## Timeout for HTTP messages.
  timeout = "5s"

[[inputs.exec]]
  interval = "180s"
```

```
commands = ["sudo -u pi /home/pi/mitemp/env/bin/python /home/pi/mitemp/go-mitemp.py"]

## Timeout for each command to complete.
timeout = "30s"

## Data format to consume.
## Each data format has its own unique set of configuration options, read
## more about them here:
## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_INPUT.md
data_format = "influx"
```

## Test the configuration

```
telegraf -config /etc/telegraf/telegraf -test
```

## Set the sudo for telegraf

“ NOTE: Pi OS ? telegraf ???? non-root ?????????????????? script????? sudo ?

Edit: `/etc/sudoers.d/011_telegraf-nopasswd`

```
telegraf ALL=(ALL) NOPASSWD: /home/pi/mitemp/env/bin/python /home/pi/mitemp/go-mitemp.py
```

## Option 2: MQTT Consumer

- Plugin: [telegraf/plugins/inputs/mqtt\\_consumer/README.md at release-1.29 · influxdata/telegraf \(github.com\)](https://github.com/influxdata/telegraf/blob/master/plugins/inputs/mqtt_consumer/README.md)
- [MQTT Broker ??? Mosquitto ?????????????????? - Office ??](#)

## Tutorials

- [pip: LYWSD03MMC](#)
- [?? IoT 30Day? Day 18 ??????????](#)
- [Xiaomi Mijia Hygrothermo v2 sensor data on Raspberry Pi](#)
- [Custom firmware for the Xiaomi Thermometer LYWSD03MMC](#)

- [Home Assistant Xiaomi Mijia LYWSD03MMC Temperature and Humidity Sensor Tutorial September 2022](#)
- [Xiaomi Mijia Temperature, and Humidity Dashboard](#)
- [How to Use Bluetooth on Raspberry Pi: GUI & Command Guide – RaspberryTips](#)

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