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## info

<https://hackaday.com/2020/12/08/exploring-custom-firmware-on-xiaomi-thermometers/>

[https://github.com/atc1441/ATC\\_MiThermometer](https://github.com/atc1441/ATC_MiThermometer)

[https://github.com/pvvx/ATC\\_MiThermometer](https://github.com/pvvx/ATC_MiThermometer)

Xiaomi Smart LCD Screen Digital Thermometer 2 Mijia Bluetooth Temperature Humidity Sensor Moisture Meter Mijia App

<https://www.aliexpress.com/item/1005002401046796.html>

LYWSD03MMC

## decode using gatttool

<https://ndimension.design.blog/2021/12/16/reading-data-from-xiaomi-mi-temperature-and-humidity-monitor-7>

```
root@rpi2:/home/pi# sudo hcitool lescan
LE Scan ...
A4:C1:38:D8:3F:9C ATC_D83F9C
```

## open source firmware

<https://github.com/bentolor/xiaomi-mijia-bluetooth-firmware>

## simple shell to send reading to influx

<https://github.com/dpavlin/air-quality/blob/master/ble-mijia.sh>

<https://github.com/dpavlin/air-quality/blob/master/system/ble-mijia%40.service>

<https://www.youtube.com/watch?v=NXKzFG61INs>

# Home Assistant

connected to home assistant using <https://esphome.github.io/bluetooth-proxies/>

get bindkey using <https://atc1441.github.io/TelinkFlasher.html>

[https://esphome.io/components/sensor/xiaomi\\_ble.html?highlight=xiaomi\\_ble#obtaining-the-bindkey](https://esphome.io/components/sensor/xiaomi_ble.html?highlight=xiaomi_ble#obtaining-the-bindkey)

```
[core-ssh ~]$ tail -18 config/.storage/core.config_entries
{
  "entry_id": "574243c45c4485523ec174e18cfcflad",
  "version": 1,
  "domain": "xiaomi_ble",
  "title": "Temperature/Humidity Sensor DC63 (LYWSD03MMC)",
  "data": {
    "bindkey": "a6da0c1d99200efe9c9afb8fd9a534ef"
  },
  "options": {},
  "pref_disable_new_entities": false,
  "pref_disable_polling": false,
  "source": "bluetooth",
  "unique_id": "A4:C1:38:90:DC:63",
  "disabled_by": null
}
]
```

flash new firmware to sensor [https://github.com/pvvx/ATC\\_MiThermometer](https://github.com/pvvx/ATC_MiThermometer)

open in chrome on android to flash firmware,  
change announcement to BTHome,  
set time,  
disconnect to start sending data to home assistant