

# Makerere

## List of Components

| Expected Env. Var | Component                                              | Reference Docs                               |
|-------------------|--------------------------------------------------------|----------------------------------------------|
| mm/min            | <a href="#">Rain-O-Matic "Professional" rain gauge</a> | <a href="#">Manual</a>                       |
| m/s               | <a href="#">Small Wind Transmitter</a>                 |                                              |
| deg               | <a href="#">Wind Direction Transmitter Compact</a>     |                                              |
| Temp. and %RH     | <a href="#">Rotronic HygroClip2 HC2A-S</a>             | <a href="#">Probes Guide Manual Mounting</a> |
| W/m2              | <a href="#">Kipp &amp; Zonen CMP3 Pyranometer</a>      | <a href="#">Manual Datasheet</a>             |
|                   | <a href="#">Raspberry Pi Zero W</a>                    |                                              |

## Raspberry

[Raspberry Pi Setup](#)

## First Program

Rain Bucket

[intro.py](#)

```
import time
import RPi.GPIO as GPIO

BUCKET_PIN = 7

GPIO.setmode(GPIO.BOARD)

GPIO.setup(BUCKET_PIN, GPIO.IN, pull_up_down=GPIO.PUD_UP)

def bucket_back(channel):
    print("Back")

GPIO.add_event_detect(BUCKET_PIN, GPIO.RISING, callback=bucket_back)

try:
    while True:
        time.sleep(0.1)
except KeyboardInterrupt:
    pass

GPIO.cleanup()
```

Last  
update: 2026/06/30 15:28 eolab:weather\_station:makerere:start [https://wiki.eolab.de/doku.php?id=eolab:weather\\_station:makerere:start&rev=1782826129](https://wiki.eolab.de/doku.php?id=eolab:weather_station:makerere:start&rev=1782826129)

---

From:  
<https://wiki.eolab.de/> - **HSRW EOLab Wiki**

Permanent link:  
[https://wiki.eolab.de/doku.php?id=eolab:weather\\_station:makerere:start&rev=1782826129](https://wiki.eolab.de/doku.php?id=eolab:weather_station:makerere:start&rev=1782826129)

Last update: **2026/06/30 15:28**

