Makerere

List of Components

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

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()
```

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

Permanent link:
https://wiki.eolab.de/doku.php?id=eolab:weather_station:makerere:start&rev=1782826129

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