

Unit Scales

Example

Measuring weight

```
Setup
  scales_0 Set RGB color R 25 G 72 B 26
  scales_0 Set button offset ENABLE

Loop
  print "weight:" + scales_0 Get scale WEIGHT GRAM value -58344
  print "button:" + scales_0 Get button SHORT PRESS
  Wait 1 s
```

```
from m5stack import *
from m5ui import *
from uiflow import *
import time
import unit

setScreenColor(0x222222)
scales_0 = unit.get(unit.SCALES, unit.PORTA)

scales_0.write_rgb_led(25, 72, 26)
scales_0.write_button_offset(1)
while True:
    print((str('weight:') + str(((scales_0.read_weight(0x14)/100) - -58344))))
    print((str('button:') + str((scales_0.read_button_status(0x20)))))
    wait(1)
    wait_ms(2)
```

API

```
scales_0 Init I2C address 0x26
```

```
scales_0.init_i2c_address(0x26)
```

- Initializes the I2C address of the Unit Scales

```
scales_0 Get button SHORT PRESS
```

```
print(scales_0.read_button_status(0x20))
```

- Get button status

scales_0 ▾ Get LED RGB ▾ status

```
print(scales_0.read_rgb_led(False))
```

- Obtain LED status

scales_0 ▾ Get scale RAW ADC ▾ value

```
print(scales_0.read_weight(0x10))
```

- Get the ADC original value status

scales_0 ▾ Get device status FW_VERSION ▾

```
print(scales_0.read_status(0xFE))
```

- Obtain the version number

scales_0 ▾ Set offset ADC value 5000

```
scales_0.write_offset(5000)
```

- Set the offset ADC value

scales_0 ▾ Set offset current ADC value

```
scales_0.write_soft_offset()
```

- Set the offset current ADC value

scales_0 ▾ Set button offset ENABLE ▾

```
scales_0.write_button_offset(1)
```

- Set button deviation

scales_0 ▾ Set load 200 gram calibration

```
scales_0.write_calibration_load(200)
```

- Set the load calibration

scales_0 ▾ Set I2C address 0x26

```
scales_0.write_i2c_address(0x26)
```

- Resets the I2C address

scales_0 ▾ Set RGB color R 0 G 0 B 0

```
scales_0.write_rgb_led(0, 0, 0)
```

- Set RGB color

scales_0 ▾ Set RGB LED sync ENABLE ▾

```
scales_0.write_rgb_sync(0)
```

- Set the RGB LED synchronization status
 - ENABLE
 - DISABLE

scales_0 ▾ Set zero gram calibration

```
scales_0.write_calibration_zero()
```

- Set the calibrator to zero grams