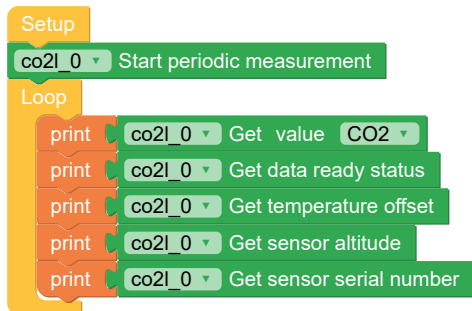


Unit CO2L

Example

Obtain atmospheric CO2L concentration, temperature, humidity and atmospheric pressure data collected by Unit CO2L



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

setScreenColor(0x222222)
co2l_0 = unit.get(unit.CO2_SCD41, unit.PORTA)

co2l_0.start_periodic_measurement()
while True:
    print(co2l_0.co2)
    print(co2l_0.data_isready())
    print(co2l_0.get_temperature_offset())
    print(co2l_0.get_sensor_altitude())
    print(co2l_0.serial_number())
    wait_ms(2)
```

API



```
co2l_0.stop_periodic_measurement()
```

- Stop Periodic Measurements

co2l_0 ▾ Perform factory reset

```
co2l_0.factory_reset()
```

- Perform Factory Reset

co2l_0 ▾ Perform forced recalibration CO2 400 PPM

```
co2l_0.force_calibration(400)
```

- Force Recalibration of CO2

co2l_0 ▾ Get auto-calibration enabled ?

```
print(co2l_0.get_calibration_enabled())
```

- Get Auto-Calibration Enabled Status

co2l_0 ▾ Get data ready status

```
print(co2l_0.data_isready())
```

- Get Data Ready Status

co2l_0 ▾ Get sensor altitude

```
print(co2l_0.get_sensor_altitude())
```

- Get Sensor Height

co2l_0 ▾ Wait for update sensor measurement

```
co2l_0.read_sensor_measurement()
```

- Wait for Sensor Measurement Update

co2l_0 ▾ Get sensor serial number

```
print(co2l_0.serial_number())
```

- Get Sensor Serial Number

co2l_0 ▾ Get temperature offset

```
print(co2l_0.get_temperature_offset())
```

- Get Temperature Offset

co2l_0 ▾ All settings save EEPROM

```
co2l_0.persist_settings()
```

- Save All Settings to EEPROM

co2l_0 ▾ Set sensor sleep mode

```
co2l_0.sleep_mode()
```

- Set Sensor to Sleep Mode

co2l_0 ▾ Get value CO2 ▾

```
print(co2l_0.co2)
```

- Get CO2/Humidity/Temperature Values

co2l_0 ▾ Re-initializes sensor

```
co2l_0.reinit()
```

- Reinitialize Sensor

co2l_0 ▾ Perform self test

```
co2l_0.self_test()
```

- Perform Self-Test

co2l_0 ▾ Set ambient pressure 0 hPa

```
co2l_0.set_ambient_pressure(0)
```

- Set Ambient Air Pressure

co2l_0 Set auto-calibration ENABLE

```
co2l_0.set_calibration_enabled(1)
```

- Set Auto-Calibration Enabled

co2l_0 Set sensor altitude height 0 M

```
co2l_0.set_sensor_altitude(0)
```

- Set Sensor Height from Ground (Mark)

co2l_0 Set temperature offset 4

```
co2l_0.set_temperature_offset(4)
```

- Set Temperature Offset

co2l_0 Single shot measurement ALL

```
co2l_0.single_shot_measurement_all()
```

- All single measurements (low power mode) (5s to obtain a value)

co2l_0 Single shot measurement HT

```
co2l_0.single_shot_measurement_ht()
```

- Single measurement of humidity and temperature

co2l_0 Start low periodic measurement

```
co2l_0.start_low_periodic_measurement()
```

- Set Temperature Offset

co2l_0 ▾ Start periodic measurement

```
co2l_0.start_periodic_measurement()
```

- Start Device Measurements

co2l_0 ▾ Sensor wake up

```
co2l_0.wake_up()
```

- Wake Up Sensor