

M5Stack Unit Scales I2C Protocol																V1 (FW Version)		
																2022/9/9		
REG MAP (Addr: 0x26)		0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	note
Scales Parameters	0x10 R	RawADC -byte0	RawADC -byte1	RawADC -byte2	RawADC -byte3	Cal Data -byte0	Cal Data -byte1	Cal Data -byte2	Cal Data -byte3	Offset -byte0	Offset -byte1	Offset -byte2	Offset -byte3					Cal Data = (Offset - RawADC) / (Scale*×10000) *Weight measurement range
Configuration	0x20	Press Count	Press Status	Long Press Count	Press Offset	ADC Offset	LED Sync Weight											Press Count: Button press count value: 0~255 Press Status: Button press status value: 0~255 Long Press Count: Long press count value: 0~255 Press Offset: Enable to set offset 0: disable 1: enable ADC Offset: set current ADC to offset 0: fail 1: succeed LED Sync Weight: Brightness varies following weight 0: disable 1: enable
		R			R/W													
Calculator Configuration	0x30 R/W	0g -byte0	0g -byte1	load -byte0	load -byte1													0g : Calibration point value: 0~65535 default: 0 load : Tare weight (unit: 10mg) value: 0~65535 default: 0
RGB LED Color Configuration	0x50 R/W	RGB_R	RGB_G	RGB_B														RGB_R/G/B: RGB value value: 0~255 default: 0
Firmware Version	0xF0 R														Version		Version: Software Version	
I2C Address	0xF0 R/W														Address		Address: I2C Address value: 0x01~0x80 default: 0x26	

Register Description:

1、 Scales Parameters

Relevant parameters for weighing.

2、 Configuration: Certain settings related to buttons, ADC, and RGB LEDs

Configuration content includes:

Press Count - Button press count

Press Status - Button press status, pressed or released

Long Press Count - Button long press count

Press Offset - Enable/Disable press button to set offset

ADC Offset - Software set current ADC to set offset

LED Sync Weight - RGB LED brightness varies following weight

3、 Calculator Configuration

0g calibration points and calculation of net weight after removal of skins.

4、 RGB LED Color Configuration

Enables RGB and sets its brightness. Note that after enabling RGB, wait approximately 50ms for voltage stabilization before refreshing it.

5、 I2C Address

After successful configuration, the I2C address will be stored in internal Flash memory, will not be lost during power-down, and will take effect immediately.

Notes:

1、 To extend the lifespan of the Flash, avoid frequent write operations.

2、 If the value to be written is the same as the current value stored in Flash, the write operation will be skipped to avoid unnecessary erase cycles, further extending the Flash's lifespan.