M5Stack Unit MiniScale I2C Protocol

V3 (FW Version)
2023/12/7

REG MAP (Addr:0x26)		0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	note
RawADC	0x00 R	RawADC-byte0	RawADC-byte1	RawADC-byte2	RawADC-byte3													RawADC = RawADC-byte0 + RawADC-byte1 * 256 + RawADC-byte2 * 65536 + RawADC-byte3 * 16777216
Weight	0x10 R	Weight-byte0	Weight-byte1	Weight-byte2	Weight-byte3													float, get the weight in grams
Button Value	0x20 R	Btn																0:press; 1:no press
LED	0x30 R/W	LED-R	LED-G	LED-B														RGB LED
GAP[1]	0x40 R/W	GAP-byte0	GAP-byte1	GAP-byte2	GAP-byte3													float, setting gap to calibration
Offset	0x50 W	Offset																write 1: reset offset
WeightX100 Int	0x60 R	Weight Int-byte0	Weight Int-byte1	Weight Int-byte2	Weight Int-byte3													Weight Int = Weight-Int-byte0 + Weight-Int-byte1 * 256 + Weight-Int-byte2 * 65536 + Weight-Int-byte3 * 16777216. Actual weight = Weight Int/100
Weight String	0x70 R																	The string ends with '/0' and the maximum number of characters is 15
Filter	0x80 W/R	lp_filter_enabled	avg_filter_level	ema_filter_alpha														lp_filter_enabled: 0~1(default 1) avg_filter_level: 0~50(default 10) ema_filter_alpha: 0~99(default 10)
Firmware Version	0xF0 R															Version		Version: firmware version number
I2C Address	0xF0 R/W																Address	Address: 1~127

[1] set gap value:
RawADC_0g = GAP * 0 + Offset
RawADC_100g = GAP * 100 + Offset
GAP = (RawADC_100g-RawADC0g) / 100

(1) step 1: Reset offset;
(2) step 2: Get RawADC, this is RawADC_0g
(3) step 3: Put 100g weight on it, and get RawADC, this is RawADC_100g
(4) step 4: Calculate the value of GAP = (RawADC_100g-RawADC0g) / 100

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