

M5Stack Unit AC Measure I2C Protocol

M5Stack Unit AC Measure I2C Protocol																	V1 (FW Version)		
																	2023/3/24		
REG MAP (Addr:0x42)			0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	note
String	Voltage(V)	0x00 R	thousand's digit	hundred's digit	ten's digit	unit's digit	.	tenths	hundredth s										
	Current(A)	0x10 R	thousand's digit	hundred's digit	ten's digit	unit's digit	.	tenths	hundredth s										
	Active Power(W)	0x20 R	thousand's digit	hundred's digit	ten's digit	unit's digit	.	tenths	hundredth s										
	Apparent Power(VA)	0x30 R	thousand's digit	hundred's digit	ten's digit	unit's digit	.	tenths	hundredth s										
	Power Factor	0x40 R	unit's digit	.	tenths	hundredth s													
	kW.h	0x50 R	ten millions	millions	hundred thousand's digit	ten thousand's digit	thousand's digit	hundred's digit	ten's digit	unit's digit	.	tenths	hundredth s						
Value	Voltage(V)	0x60 R	voltage-L	voltage-H														Voltage: Voltage = (voltage-L + voltage-H * 256) / 100 ^[1]	
	Current(A)	0x70 R	current-L	current-H														Current: Current = (Current-L + Current-H * 256) / 100	
	Active Power(W)	0x80 R	active power- byte0	active power- byte1	active power-- byte2	active power-- byte3											Active Power: ActivePower = (ActivePower-L + ActivePower-H * 256) / 100		
	Apparent Power(VA)	0x90 R	apparent power- byte0	apparent power- byte1	apparent power- byte2	apparent power- byte3											Apparent Power: ApparentPower = (Apparent Power-L + ApparentPower-H * 256) / 100		
	Power Factor	0xA0 R	power factor														Power Factor: power factor / 100		
	kW.h	0xB0 R	kW.h- byte0	kW.h- byte1	kW.h- byte2	kW.h- byte3											kW.h: kW.h = (kW.h-byte0 + kW.h- byte1 * 256 + kW.h-byte2 * 65536 + kW.h-byte3 * 16777216) / 100		
	Voltage Coefficient	0xC0 R/W	voltage coefficient														Voltage Coefficient: voltage coefficient / 100		
	Current Coefficient	0xD0 R/W	current coefficient														Current Coefficient: current coefficient / 100		
	Save Coefficient	0xE0 W	save														Save: set a value > 1, will save voltage and current coefficient		
	Data Ready	0xF0 R												Data Ready					Data Ready: Data Ready=1, data ready; Data Ready = 0, data not ready
	Firmware Version	0xF0 R														Version			Version: firmware version number
	I2C Address	0xF0 R/W																Address	Address: I2C Address

[1] For example, the actual voltage is 100.55V, and the obtained data is 100.55*100=10055, Temperature-L = 0x47, Temperature-H = 0x27

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