

MP2 – M2S – M2X – M2U – M2F

MODBUS TCP/IP table

NetMan 208C

SUPPORTED FUNCTION	FUNCTION DESCRIPTION	ACCESSIBLE TABLES
1 (0x01) 2 (0x02)	BIT READING	STATES/ALARMS
3 (0x03) 4 (0x04)	REGISTERS READING	ALL
6 (0x06)	SINGLE REGISTER WRITING	COMMANDS
16 (0x10)	MULTIPLE REGISTERS WRITING	COMMANDS

REGISTER ⁽¹⁾		STATES/ALARMS	BIT ⁽²⁾	
Number	Address		Number	Address
1	0		1	0
		Test in progress [0=NO / 1=YES]	2	1
		Shutdown imminent [0=NO / 1=YES]	3	2
		Shutdown active [0=NO / 1=YES]	4	3
		Replace battery [0=NO / 1=YES]	5	4
		Battery charged [0=NO / 1=YES]	6	5
		Battery charging [0=NO / 1=YES]	7	6
		Bypass not available [0=NO / 1=YES]	8	7
			9	8
		Normal operation [0=NO / 1=YES]	10	9
		Eco mode [0=NO / 1=YES]	11	10
		On bypass [0=NO / 1=YES]	12	11
		Battery low [0=NO / 1=YES]	13	12
		Battery working [0=NO / 1=YES]	14	13
		UPS locked [0=NO / 1=YES]	15	14
		Output powered [0=NO / 1=YES]	16	15
2	1		17	16
		SWOUT [0=CLOSED / 1=OPEN]	18	17
			19	18
			20	19
		SWMB (Manual bypass command) [0=OPEN / 1=CLOSED]	21	20
			22	21
			23	22
			24	23
			25	24
			26	25
			27	26
			28	27
		Input Mains present [0=NO / 1=YES]	29	28
		Alarm temperature [0=NO / 1=YES]	30	29
		Alarm overload [0=NO / 1=YES]	31	30
		UPS alarm [0=NO / 1=YES]	32	31

REGISTER ⁽¹⁾		STATES/ALARMS	BIT ⁽²⁾	
Number	Address		Number	Address
3	2	EPO active [0=NO / 1=YES]	33	32
			34	33
		Bypass command active (Panel OR Remote IN) [0=NO / 1=YES]	35	34
			36	35
			37	36
		Backfeed protection active [0=NO / 1=YES]	38	37
			39	38
			40	39
			41	40
			42	41
		Battery not present (or inverted) [0=NO / 1=YES]	43	42
			44	43
			45	44
			46	45
			47	46
			48	47
4	3		49	48
		Parallel link open (or bus communication error) [0=NO / 1=YES]	50	49
			51	50
			52	51
			53	52
			54	53
			55	54
			56	55
			57	56
			58	57
			59	58
			60	59
			61	60
			62	61
		Communication lost with UPS [0=NO / 1=YES]	64	63

⁽¹⁾ The register number **n** must be addressed **n-1** in the data packet.

⁽²⁾ The bit number **n** must be addressed **n-1** in the data packet.

REGISTER ⁽¹⁾		MEASUREMENTS	UNIT
Number	Address		
9	8	Input voltage (L1-L2)	V
10	9	Input voltage (L2-L3)	V
11	10	Input voltage (L3-L1)	V
12	11	Input voltage (L1-N)	V
13	12	Input voltage (L2-N)	V
14	13	Input voltage (L3-N)	V
15	14	Input current (L1)	A/10
16	15	Input current (L2)	A/10
17	16	Input current (L3)	A/10
18	17	Input frequency	Hz/10
19	18	Bypass voltage (L1-L2)	V
20	19	Bypass voltage (L2-L3)	V
21	20	Bypass voltage (L3-L1)	V
22	21	Bypass voltage (L1-N)	V
23	22	Bypass voltage (L2-N)	V
24	23	Bypass voltage (L3-N)	V
25	24	Bypass frequency	Hz/10
26	25	Output voltage (L1-N)	V
27	26	Output voltage (L2-N)	V
28	27	Output voltage (L3-N)	V
29	28	Output voltage (L1-L2)	V
30	29	Output voltage (L2-L3)	V
31	30	Output voltage (L3-L1)	V
32	31	Output current (L1)	A/10
33	32	Output current (L2)	A/10
34	33	Output current (L3)	A/10
35	34	Output peak current (L1)	A/10
36	35	Output peak current (L2)	A/10
37	36	Output peak current (L3)	A/10
38	37	Load (L1)	%
39	38	Load (L2)	%
40	39	Load (L3)	%
41	40	Output active power (L1)	kW/10
42	41	Output active power (L2)	kW/10
43	42	Output active power (L3)	kW/10
44	43	Output frequency	Hz/10
45	44	Output apparent power (L1)	kVA/10
46	45	Output apparent power (L2)	kVA/10
47	46	Output apparent power (L3)	kVA/10
48	47	Battery voltage	V/10
49	48		
50	49		
51	50	Battery current (+ Discharge, - Charge)	±A/10
52	51	Battery SOC	%
53	52		
54	53	Battery autonomy	Minutes
55	54		
56	55		
57	56		
58	57		
59	58	Output reactive power (L1)	kVAr/10
60	59	Output reactive power (L2)	kVAr/10
61	60	Output reactive power (L3)	kVAr/10
62	61	System temperature	°C
63	62		
64	63		
65	64		
66	65		
67	66		

REGISTER ⁽¹⁾		MEASUREMENTS	UNIT
Number	Address		
68	67	External battery temperature	°C
69	68		
70	69		
71	70		
72	71		
73	72		
74	73	Average load on 3 phases	%
75	74	Output total active power	kW/10
76	75	Output total apparent power	kVA/10
77	76	Output total reactive power	kVAr/10

NOTE: Some measures may not be available. In this case you find 0xFFFF value in the relative register.

REGISTER ⁽¹⁾		NOMINAL DATA	UNIT
Number	Address		
78	77	Output nominal voltage	V
79	78	Output nominal frequency	Hz/10
80	79	Output nominal apparent power	kVA*100
81	80	Output nominal active power	kW*100
82	81		
83	82	Battery nominal voltage	V
84	83	Battery nominal capacity	Ah
85	84	Battery benches	1 or 2

REGISTER ⁽¹⁾		NetMan DIAGNOSTIC	UNIT
Number	Address		
119	118	Counter of processed correct messages	Integer
120	119	Counter of processed not correct messages	Integer

⁽¹⁾ The register number **n** must be addressed **n-1** in the data packet.

REGISTER ⁽¹⁾		MODULES STATUS CODE	
Number	Address		
297	296	SMU (System Monitoring Unit) status code	Refer to SMU status code table
298	297	BM (Bypass Module) BM (Bypass Module) Phase 1 status code	Refer to BM status code table
299	298	BM (Bypass Module) Phase 2 status code	Only for M2S
300	299	BM (Bypass Module) Phase 3 status code	Refer to BM status code table
301	300	PM (Power Module) status code	Only for MP2 Refer to PM status code table
302	301	PM (Power Module) status code	
303	302	PM (Power Module) status code	
304	303	PM (Power Module) status code	
305	304	PM (Power Module) status code	
306	305	PM (Power Module) status code	
307	306	PM (Power Module) status code	
308	307	PM (Power Module) status code	
309	308	PM (Power Module) status code	
310	309	RESERVED	
311	310	PM (Power Module) status code	Only for M2S Refer to PM status code table
312	311	PM (Power Module) status code	
313	312	PM (Power Module) status code	
314	313	PM (Power Module) status code	
315	314	PM (Power Module) status code	
316	315	PM (Power Module) status code	
317	316	PM (Power Module) status code	
318	317	PM (Power Module) status code	
319	318	PM (Power Module) status code	
320	319	PM (Power Module) status code	
321	320	PM (Power Module) status code	
322	321	PM (Power Module) status code	
323	322	PM (Power Module) status code	
324	323	PM (Power Module) status code	
325	324	PM (Power Module) status code	
326	325	PM (Power Module) status code	
327	326	PM (Power Module) status code	
328	327	PM (Power Module) status code	
329	328	PM (Power Module) status code	
330	329	PM (Power Module) status code	
331	330	PM (Power Module) status code	
332	331	PM (Power Module) status code	
333	332	PM (Power Module) status code	
334	333	PM (Power Module) status code	
335	334	PM (Power Module) status code	
336	335	PM (Power Module) status code	
337	336	PM (Power Module) status code	
338	337	PM (Power Module) status code	
339	338	PM (Power Module) status code	
340	339	PM (Power Module) status code	



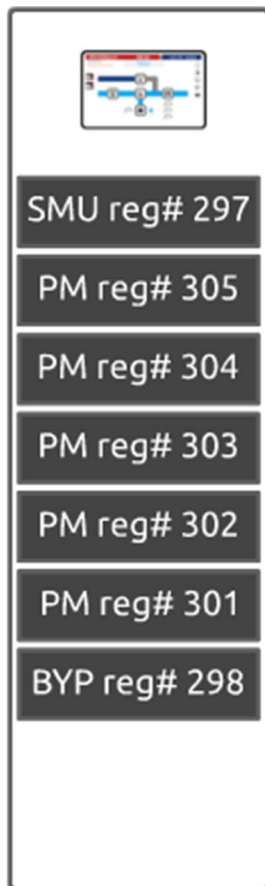
Refer to the following images to identify for each module the corresponding modbus address.

PM (POWER MODULE) STATUS CODE DESCRIPTION															
bit 15	bit 14	bit 13	bit 12	bit 11	bit 10	bit 9	bit 8	bit 7	bit 6	bit 5	bit 4	bit 3	bit 2	bit 1	bit 0
RESERVED						0 = Not available on UPS model 1 = Stand-by 2 = Precharge 3 = Starting - Calibration 4 = Wait battery recharge 5 = Load on inverter 6 = From battery 7 = Load on bypass 8 = Efficiency control 9 = Not present						0 = Communication Lost 1 = Normal Operation 2 = Anomaly 3 = Warning 4 = Fault 5 = Lock			

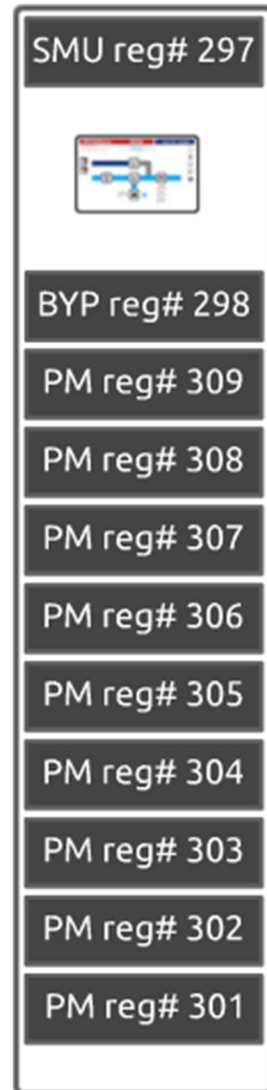
BM (BYPASS MODULE) STATUS CODE DESCRIPTION															
bit 15	bit 14	bit 13	bit 12	bit 11	bit 10	bit 9	bit 8	bit 7	bit 6	bit 5	bit 4	bit 3	bit 2	bit 1	bit 0
RESERVED						1 = Stand-by 3 = Switch on 5 = Ready 7 = Load on bypass						0 = Communication Lost 1 = Normal Operation 2 = Anomaly 3 = Warning 4 = Fault 5 = Lock			

SMU (SYSTEM MONITORING UNIT) STATUS CODE DESCRIPTION															
bit 15	bit 14	bit 13	bit 12	bit 11	bit 10	bit 9	bit 8	bit 7	bit 6	bit 5	bit 4	bit 3	bit 2	bit 1	bit 0
RESERVED						5 = Present						0 = Communication Lost 1 = Normal Operation 2 = Anomaly 3 = Warning 4 = Fault 5 = Lock			

**M2X 90 / M2X 120
MP2 300**



MP2 500 / MP2 600



The number of power modules changes according to the UPS model.

M2S 1000 / M2S 1250

		SMU reg# 297
PM reg# 330	PM reg# 320	
PM reg# 329	PM reg# 319	
PM reg# 328	PM reg# 318	
PM reg# 327	PM reg# 317	
PM reg# 326	PM reg# 316	BYP1 reg# 298
PM reg# 325	PM reg# 315	
PM reg# 324	PM reg# 314	BYP2 reg# 299
PM reg# 323	PM reg# 313	
PM reg# 322	PM reg# 312	BYP3 reg# 300
PM reg# 321	PM reg# 311	

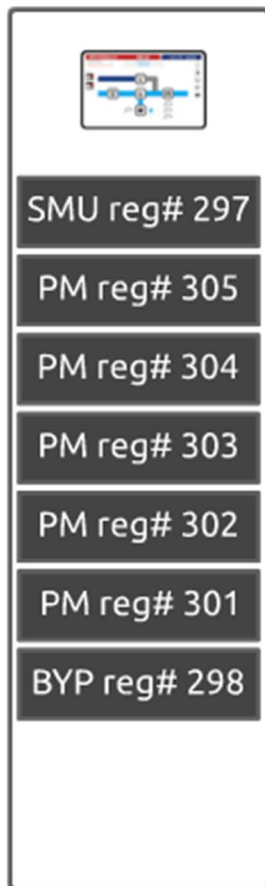


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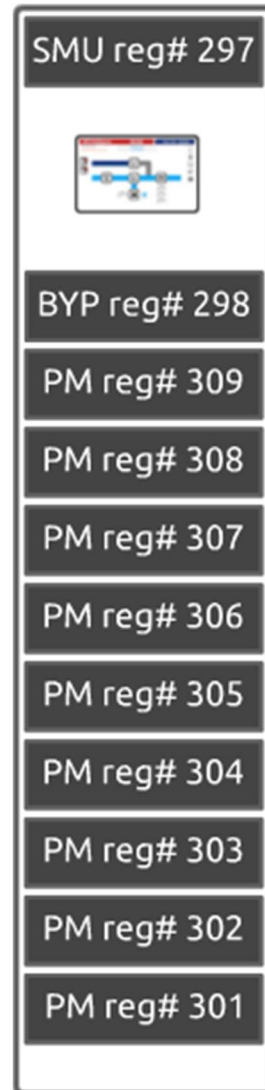
M2S 1600 / M2S 2000

			SMU reg# 297
PM reg# 340	PM reg# 330	PM reg# 320	
PM reg# 339	PM reg# 329	PM reg# 319	
PM reg# 338	PM reg# 328	PM reg# 318	
PM reg# 337	PM reg# 327	PM reg# 317	
PM reg# 336	PM reg# 326	PM reg# 316	BYP1 reg# 298
PM reg# 335	PM reg# 325	PM reg# 315	BYP2 reg# 299
PM reg# 334	PM reg# 324	PM reg# 314	
PM reg# 333	PM reg# 323	PM reg# 313	BYP3 reg# 300
PM reg# 332	PM reg# 322	PM reg# 312	
PM reg# 331	PM reg# 321	PM reg# 311	

M2U 68 / M2U 140
M2F 150 / M2F 350



M2F 675



The number of power modules changes according to the UPS model.