

S3T – S3M – S3U

MODBUS RTU table

Multicom 302

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	SWBAT [0=CLOSED / 1=OPEN]	17	16
		SWOUT [0=CLOSED / 1=OPEN]	18	17
		SWBYP [0=CLOSED / 1=OPEN]	19	18
		SWIN [0=CLOSED / 1=OPEN]	20	19
		SWMB (Manual bypass command) [0=OPEN / 1=CLOSED]	21	20
			22	21
			23	22
		Fan Fault (not available on all models) [0=NO / 1=YES]	24	23
		Warning [0=NO / 1=YES]	25	24
		Anomaly [0=NO / 1=YES]	26	25
		Service alarm [0=NO / 1=YES]	27	26
		Alarm from input contact [0=NO / 1=YES]	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 failure [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
		CB off command [0=NO / 1=YES]	34	33
		Bypass command active (Panel OR Remote IN) [0=NO / 1=YES]	35	34
		Bypass phases reversed [0=NO / 1=YES]	36	35
		Bypass fault [0=NO / 1=YES]	37	36
		Backfeed protection active [0=NO / 1=YES]	38	37
		Bypass out of tolerance [0=NO / 1=YES]	39	38
			40	39
			41	40
		Battery Charger fault [0=NO / 1=YES]	42	41
		Battery not present (or inverted) [0=NO / 1=YES]	43	42
		Battery overvoltage [0=NO / 1=YES]	44	43
		Deep discharge protection [0=NO / 1=YES]	45	44
		Battery fuse open [0=NO / 1=YES]	46	45
		External probe overtemperature [0=NO / 1=YES]	47	46
			48	47
4	3	Inverter asynchronous [0=NO / 1=YES]	49	48
		Parallel link open [0=NO / 1=YES]	50	49
		Load > User Threshold OR Load > CSS limit [0=NO / 1=YES]	51	50
		System undertemperature [0=NO / 1=YES]	52	51
		System overtemperature [0=NO / 1=YES]	53	52
		Output negative power [0=NO / 1=YES]	54	53
			55	54
			56	55
			57	56
			58	57
			59	58
			60	59
			61	60
			62	61
			63	62
		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		
10	9		
11	10		
12	11	Input voltage (Ph-N) V1	V
13	12	Input voltage (Ph-N) V2	V
14	13	Input voltage (Ph-N) V3	V
15	14		
16	15		
17	16		
18	17	Input frequency	Hz/10
19	18		
20	19		
21	20		
22	21	Bypass voltage (Ph-N) V1	V
23	22	Bypass voltage (Ph-N) V2	V
24	23	Bypass voltage (Ph-N) V3	V
25	24	Bypass frequency	Hz/10
26	25	Output voltage (Ph-N) V1	V
27	26	Output voltage (Ph-N) V2	V
28	27	Output voltage (Ph-N) V3	V
29	28		
30	29		
31	30		
32	31	Output current phase L1	A/10
33	32	Output current phase L2	A/10
34	33	Output current phase L3	A/10
35	34	Output peak current phase L1	A/10
36	35	Output peak current phase L2	A/10
37	36	Output peak current phase L3	A/10
38	37	Load phase L1	%
39	38	Load phase L2	%
40	39	Load phase L3	%
41	40	Output active power phase L1	kW/10
42	41	Output active power phase L2	kW/10
43	42	Output active power phase L3	kW/10
44	43	Output frequency	Hz/10
45	44	Output apparent power phase L1	kVA/10
46	45	Output apparent power phase L2	kVA/10
47	46	Output apparent power phase L3	kVA/10
48	47		
49	48	Battery voltage of positive bench	V/10
50	49	Battery voltage of negative bench	V/10
51	50		
52	51	Charge%	%
53	52		
54	53	Autonomy	Minutes
55	54	Battery current of positive bench	A/10
56	55	Battery current of negative bench	A/10
57	56		
...	...		
61	60		
62	61	System temperature	°C
63	62	Boost temperature	°C
64	63	Inverter temperature	°C
65	64		
...	...		
72	71		

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		
73	72		
...	...		
77	76		
78	77	Output nominal voltage	V
79	78	Output nominal frequency	Hz/10
80	79	Output nominal apparent power	kVA/10
81	80	Output nominal active power	kW/10
82	81		
83	82	Battery nominal voltage (for bench)	V
84	83	Battery nominal capacity (battery expansion included)	Ah
85	84	Battery benches	(1 or 2)
86	85		
87	86		
88	87		

REGISTER ⁽¹⁾		COMMANDS	UNIT
Number	Address		
113	112	Command Code:	Integer
		1 (0x0001) UPS Shutdown (see also register 114)	
		2 (0x0002) UPS Shutdown & Restore	
		(see also register 114/115)	
		3 (0x0003) Delete Command (code 1 – 2)	
		20 (0x0014) Test Battery	
		12336 (0x3030) Disable all commands mode	
		13617 (0x3531) "Load on bypass" command On	
		13616 (0x3530) "Load on bypass" command Off	
		14129 (0x3731) "Battery working" command On	
		14128 (0x3730) "Battery working" command Off	
		14385 (0x3831) "Battery charger OFF" command On	
		14384 (0x3830) "Battery charger OFF" command Off	
		14641 (0x3931) "Bypass disable" command On	
		14640 (0x3930) "Bypass disable" command Off	
114	113	Shutdown delay time	Seconds
115	114	Restore delay time	Minutes
116	115	RESERVED	
117	116	Command result:	Integer
		= Command code if command is handled from the UPS	
		= Command code + 100 if command is NOT handled from the UPS	
118	117	RESERVED	

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

REGISTER ⁽¹⁾		MultiCOM DATA	UNIT
Number	Address		
129	128	Firmware version	Integer*100

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