

SDU - STW

5÷10kVA

MODBUS TABLE

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	RESERVED	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
		RESERVED	9	8
		Normal operation [0=NO / 1=YES]	10	9
		RESERVED	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
		RESERVED	19	18
		RESERVED	20	19
		SWMB (Manual bypass command) [0=OPEN / 1=CLOSED]	21	20
		RESERVED	22	21
		RESERVED	23	22
		RESERVED	24	23
		Warning [0=NO / 1=YES]	25	24
		Anomaly [0=NO / 1=YES]	26	25
		Service alarm [0=NO / 1=YES]	27	26
		RESERVED	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
		RESERVED	40	39
		RESERVED	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
		RESERVED	45	44
		RESERVED	46	45
		External probe overtemperature [0=NO / 1=YES]	47	46
		RESERVED	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
		RESERVED	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	RESERVED	
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	RESERVED	
16	15		
17	16		
18	17	Input frequency	Hz/10
19	18	RESERVED	
20	19		
21	20		
22	21	Bypass voltage (Ph-N)	V
23	22		
24	23		
25	24	Bypass frequency	Hz/10
26	25	Output voltage (Ph-N)	V
27	26		
28	27		
29	28	RESERVED	
30	29		
31	30		
32	31	Output current phase	A/10
33	32		
34	33		
35	34	Output peak current	A/10
36	35		
37	36		
38	37	Load	%
39	38		
40	39		
41	40	Output active power	kW/10
42	41		
43	42		
44	43	Output frequency	Hz/10
45	44	Output apparent power	kVA/10
46	45		
47	46		
48	47	RESERVED	
49	48	Battery voltage of positive bench	V/10
50	49		
51	50	RESERVED	
52	51	Charge%	%
53	52	RESERVED	
54	53	Autonomy	Minutes
55	54	Battery current of positive bench	A/10
56	55		
57	56	RESERVED	
...	...		
61	60		

REGISTER ⁽¹⁾		MEASUREMENTS	UNIT
Number	Address		
62	61	System temperature	°C
63	62	Inverter temperature	°C
64	63	Boost temperature	°C
65	64	RESERVED	
66	65	Battery charger temperature	°C
67	66	RESERVED	
68	67	External battery temperature (optional) ⁽³⁾	°C
69	68	RESERVED	
...	...		
72	71		

⁽³⁾ If the external temperature sensor is not installed, you find 119 (0x0077) in the relative register.

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	RESERVED	
...	...		
77	76		
78	77	Output nominal voltage	V
79	78	Output nominal frequency	Hz/10
80	79	Output nominal power	kVA/10
81	80	Output nominal power	kW/10
82	81	RESERVED	
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	RESERVED	
87	86		
88	87		

REGISTER ⁽¹⁾		RESERVED	UNIT
Number	Address		
89÷112	88÷111		

REGISTER ⁽¹⁾		COMMANDS	UNIT
Number	Address		
113	112	Command Code: 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	Integer
114	113	Shutdown delay time	Seconds
115	114	Restore delay time	Minutes
116	115	RESERVED	
117	116	Command result: = Command code if command is handled from the UPS = Command code + 100 if command is NOT handled from the UPS = 0 if Command code is wrong	Integer
118	117	RESERVED	

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

REGISTER ⁽¹⁾		RESERVED	UNIT
Number	Address		
121÷128	120÷127		

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

REGISTER ⁽¹⁾		RESERVED	UNIT
Number	Address		
130÷157	129÷156		

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