

SEP – SER – SDH SDU 4kVA

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	RESERVED	17	16
		RESERVED	18	17
		RESERVED	19	18
		RESERVED	20	19
		RESERVED	21	20
		RESERVED	22	21
		RESERVED	23	22
		RESERVED	24	23
		RESERVED	25	24
		RESERVED	26	25
		RESERVED	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	RESERVED	33	32
			34	33
			35	34
			36	35
			37	36
			38	37
			39	38
			40	39
			41	40
			42	41
			43	42
			44	43
			45	44
			46	45
			47	46
			48	47
4	3	RESERVED	49	48
			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
			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		
14	13		
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		
36	35		
37	36		
38	37	Load	%
39	38		
40	39		
41	40		
42	41		
43	42		
44	43	Output frequency	Hz/10
45	44		
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		
56	55		
57	56	RESERVED	
...	...		
61	60		

REGISTER ⁽¹⁾		MEASUREMENTS	UNIT
Number	Address		
62	61	System temperature	°C
63	62	RESERVED	
64	63	RESERVED	
65	64	RESERVED	
66	65	RESERVED	
67	66	RESERVED	
68	67	RESERVED	
69	68	RESERVED	
...	...		
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	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.