

MDU

MODBUS TABLE

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

REGISTER ⁽¹⁾		MDU - STATES/ALARMS	BIT ⁽²⁾	
NUMBER	ADDRESS		NUMBER	ADDRESS
1	0	0 = Output 1 Active / 1 = Output 1 NOT Active	1	0
		0 = Output 2 Active / 1 = Output 2 NOT Active	2	1
		0 = Output 3 Active / 1 = Output 3 NOT Active	3	2
		0 = Output 4 Active / 1 = Output 4 NOT Active	4	3
		0 = Output 5 Active / 1 = Output 5 NOT Active	5	4
		0 = Output 6 Active / 1 = Output 6 NOT Active	6	5
		0 = Output 7 Active / 1 = Output 7 NOT Active	7	6
		0 = Output 8 Active / 1 = Output 8 NOT Active	8	7
			9	8
			10	9
			11	10
			12	11
			13	12
			14	13
			15	14
			16	15
2	1		17	16
			18	17
			19	18
			20	19
			21	20
			22	21
			23	22
			24	23
			25	24
			26	25
			27	26
			28	27
			29	28
			30	29
			31	30
			32	31

3	2	0 = Output 1 OK / 1 = Output 1 OFF for overload	33	32
		0 = Output 2 OK / 1 = Output 2 OFF for overload	34	33
		0 = Output 3 OK / 1 = Output 3 OFF for overload	35	34
		0 = Output 4 OK / 1 = Output 4 OFF for overload	36	35
		0 = Output 5 OK / 1 = Output 5 OFF for overload	37	36
		0 = Output 6 OK / 1 = Output 6 OFF for overload	38	37
		0 = Output 7 OK / 1 = Output 7 OFF for overload	39	38
		0 = Output 8 OK / 1 = Output 8 OFF for overload	40	39
			41	40
			42	41
			43	42
			44	43
			45	44
			46	45
			47	46
			48	47
4	3	Low input voltage [0=NO / 1=YES]	49	48
		High input voltage [0=NO / 1=YES]	50	49
		Low input current [0=NO / 1=YES]	51	50
		High input current [0=NO / 1=YES]	52	51
		Power Fail on Auxiliary 1 [0=NO / 1=YES]	53	52
		Power Fail on Auxiliary 2 [0=NO / 1=YES]	54	53
		Manual Bypass [0=NO / 1=YES]	55	54
			56	55
			57	56
			58	57
			59	58
			60	59
			61	60
			62	61
			63	62
		Communication lost with IRMS [0=No / 1=Yes]	64	63

REGISTER ⁽¹⁾		MDU - STATES/ALARMS	BIT ⁽²⁾	
NUMBER	ADDRESS		NUMBER	ADDRESS
5÷8	4÷7	RESERVED	65÷128	64÷127

⁽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⁾		MDU - MEASUREMENTS	Unit
NUMBER	ADDRESS		
9	8		
10	9		
11	10	Input Voltage	V
12	11	Input Frequency	0.1*Hz
13	12	Input Current	0.1*A
14	13	Output 1 Current	0.1*A
15	14	Output 2 Current	0.1*A
16	15	Output 3 Current	0.1*A
17	16	Output 4 Current	0.1*A
18	17	Output 5 Current	0.1*A
19	18	Output 6 Current	0.1*A
20	19	Output 7 Current	0.1*A
21	20	Output 8 Current	0.1*A
22	21	Output 1 Status	Integer
23	22	Output 2 Status	Integer
24	23	Output 3 Status	Integer
25	24	Output 4 Status	Integer
26	25	Output 5 Status	Integer
27	26	Output 6 Status	Integer
28	27	Output 7 Status	Integer
29	28	Output 8 Status	Integer
30	29	Cabinet Temperature	°C
31÷72	30÷71		

REGISTER ⁽¹⁾		MDU - NOMINAL DATA	Unit
NUMBER	ADDRESS		
73	72	Nominal Current in A	A
74	73	Nominal Voltage	V
75	74	Nominal Frequency	0.1*Hz
76÷88	75÷87		

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

REGISTER ⁽¹⁾		MDU - IDENTIFICATION	Unit
NUMBER	ADDRESS		
89	88		
90	89	Model description	2 ASCII char
91	90	Model description	2 ASCII char
92	91	Model description	2 ASCII char
93÷99	92÷98		
100	99	Firmware version	Integer*10
101÷103	100÷102		Integer
104	103	Input/Output configuration “1” = Single-phase → Single-phase “4” = Three-phase → Three-phase	Integer
105	104	Model “5” = Automatic Transfer Switch “6” = Static Transfer Switch “7” = MDU “8” = IRMS	Integer
106	105	Input Socket “1” or “2”	Integer
107	106	Output Socket “1” to “8”	Integer
108÷112	107÷111		

REGISTER ⁽¹⁾		MDU - COMMANDS	Unit
NUMBER	ADDRESS		
113	112	Command Code: 1 (0x0001) Command Shutdown 2 (0x0002) Command Restore 3 (0x0003) Command Delete (code 1 e 2) 22 (0x0016) Test Panel	Integer
114	113	Shutdown delay time	Seconds
115	114	Restore delay time	Minutes
116	115	Output to which apply command 1, 2 or 3: 0 (0x0000) All Outputs 1 (0x0001) Output 1 2 (0x0002) Output 2 3 (0x0003) Output 3 4 (0x0004) Output 4 5 (0x0005) Output 5 6 (0x0006) Output 6 7 (0x0007) Output 7 8 (0x0008) Output 8	
117	116		
118	117	Command result NEW: 0x0000+Command Code Command in progress 0x0100+Command Code Command code is wrong 0x0200+Command Code Command is not handled 0x0300+Command Code Parameter out of range (Reg. 114-115-116) 0x0E00+Command Code Command sent to MDU 0x0F00+Command Code Command executed	Integer

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

REGISTER ⁽¹⁾		DIAGNOSTIC	Unit
NUMBER	ADDRESS		
119	118	Counter of processed correct messages	Integer
120	119	Counter of processed not correct messages	Integer
121÷128	120÷127	RESERVED	

REGISTER ⁽¹⁾		MultiCOM DATA / NetMan DATA	Unit
NUMBER	ADDRESS		
129	128	Firmware version	Integer*100
130	129		
131	130		

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