

MTS - MMS - MTA

Transfer Switch

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	Sound Off [0=NO / 1=YES]	1	0
		Test in progress [0=NO / 1=YES]	2	1
		RESERVED	3	2
		RESERVED	4	3
		Aux. Power2 failure [0=NO / 1=YES]	5	4
		Aux. Power1 failure [0=NO / 1=YES]	6	5
		Synchron bad [0=NO / 1=YES]	7	6
		Preferred Source [0=NO / 1=YES]	8	7
		Transfer inhibit [0=NO / 1=YES]	9	8
		Non Synch. inhibit [0=NO / 1=YES]	10	9
		Source S2 bad [0=NO / 1=YES]	11	10
		Source S1 bad [0=NO / 1=YES]	12	11
		On Source S2 [0=NO / 1=YES]	13	12
		On Source S1 [0=NO / 1=YES]	14	13
		ATS/STS Locked [0=NO / 1=YES]	15	14
		Output Switch Off [0=NO / 1=YES]	16	15
2	1	S2 Black Out [0=NO / 1=YES]	17	16
		RESERVED	18	17
		S2 Phase sequency not OK [0=NO / 1=YES]	19	18
		S2 Voltage out of tolerance [0=NO / 1=YES]	20	19
		S1 SCR alternance loss [0=NO / 1=YES]	21	20
		S1 Input SW Off [0=NO / 1=YES]	22	21
		S1 Frequency bad [0=NO / 1=YES]	23	22
		S1 Balance bad [0=NO / 1=YES]	24	23
		S1 Black Out [0=NO / 1=YES]	25	24
		RESERVED	26	25
		S1 Phase sequency not OK [0=NO / 1=YES]	27	26
		S1 Voltage out of tolerant [0=NO / 1=YES]	28	27
		User Login [0=NO / 1=YES]	29	28
		Alarm Overtemperature [0=NO / 1=YES]	30	29
		Alarm Overload [0=NO / 1=YES]	31	30
		General Failure [0=NO / 1=YES]	32	31
3	2	RESERVED	33	32
		RESERVED	34	33
		RESERVED	35	34
		RESERVED	36	35
		S2 Input MCCB trip [0=NO / 1=YES]	37	36
		S1 Input MCCB trip [0=NO / 1=YES]	38	37
		Service Login [0=NO / 1=YES]	39	38
		Output SCR alternance loss [0=NO / 1=YES]	40	39
		Maintenance Bypass to S2 [0=NO / 1=YES]	41	40
		Maintenance Bypass to S1 [0=NO / 1=YES]	42	41
		Manual Transfer on S2 [0=NO / 1=YES]	43	42
		Manual Transfer on S1 [0=NO / 1=YES]	44	43
		S2 SCR alternance loss [0=NO / 1=YES]	45	44
		S2 Input SW Off [0=NO / 1=YES]	46	45
		S2 Frequency bad [0=NO / 1=YES]	47	46
		S2 Balance bad [0=NO / 1=YES]	48	47
4	3	RESERVED	49	48
		
		Communication lost with UPS [0=NO / 1=YES]	63	62
5÷8	4÷7		64	63
			65	64
		
			128	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⁾		MEASUREMENTS	UNIT
Number	Address		
9	8	Source S1 L1-N input Voltage	V
10	9	Source S1 L2-N input Voltage	V
11	10	Source S1 L3-N input Voltage	V
12	11	Source S1 input Frequency	Hz/10
13	12	Source S2 L1-N input Voltage	V
14	13	Source S2 L2-N input Voltage	V
15	14	Source S2 L3-N input Voltage	V
16	15	Source S2 input Frequency	Hz/10
17	16	L1 Output Load	%
18	17	L2 Output Load	%
19	18	L3 Output Load	%
20	19	L1 Output Load Current	A/10
21	20	L2 Output Load Current	A/10
22	21	L3 Output Load Current	A/10
23	22	Cabinet inside Temperature	°C
24	23	Synchron angle	
25	24	RESERVED	
...	...		
72	71		



For single-phase systems, the value 0xFFFF is reported in the registers relating to L2 and L3.

REGISTER ⁽¹⁾		NOMINAL DATA	UNIT
Number	Address		
73	72	Nominal Current	A
74	73	Nominal Voltage	V
75	74	Nominal Frequency	Hz/10
76	75	RESERVED	
...	...		
112	111		

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

REGISTER ⁽¹⁾		COMMANDS	UNIT
Number	Address		
113	112	Command Code: 4 (0x0004) Beeper disable 5 (0x0005) Beeper enable 8 (0x0008) Log In 9 (0x0009) Log Out 17 (0x0011) Cancel manual transfer 18 (0x0012) Manual transfer to source 1 19 (0x0013) Manual transfer to source 2 21 (0x0015) Test General 22 (0x0016) Test Panel 23 (0x0017) Test Cancel	Integer
114	113	User password	Integer
115	114	RESERVED	
116	115	RESERVED	
117	116	Command result: = Command code if command is handled from the Transfer Switch = Command code + 100 if command is NOT handled = 0 if Command code is wrong	Integer
118	117	RESERVED	



Before running any command, you must log in (command code 8) with the correct user password (Register 114).



Commands are not supported by the MTA (Multi Switch ATS).

REGISTER ⁽¹⁾		MultiCOM 302 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 302 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.