

MODBUS- Adress table MMI6000 - version 6.x

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FNCTION CODE 3: ONLY-READ register MMI – MODBUS-RTU

Adress DEZ	Adress HEX	HIGH-BYTE	LOW-BYTE	Function
0	0000	*	*	Reactive power - H
1	01	*	*	Reactive power - L
2	02	*	*	Active power - H
3	03	*	*	Active power - L
4	04	*	*	Apparent power - H
5	05	*	*	Apparent power - L
...				
19	13	*	*	COS-PHI example: 100 = 1.00 99 = 0.99 IND -99 = 0.99 CAP
20	14	*	*	Voltage
21	15	*	*	Current
22	16	0	*	Frequency
23	17	0	*	Temperature cabinet -20...70°C
24	18	0	*	Temperature inside device -20...70°C
25	19	*	*	Active energy – H
26	1A	*	*	Active energy – L
27	1B	*	*	Max. current
28	1C	*	*	Max. voltage
29	1D	*	*	Max. Cos-Phi
...				
32	20	0	BIT 1 = OUTPUT	OUTPUT-control-register OFF Output relay or transistor-output OFF and relay status read back
33	21	0	BIT 1 = OUTPUT	OUTPUT-control-register ON Output relay or transistor-output ON and relay status read back
...				
51	33	*	*	COS-PHI example: 100 = 1.00 99 = 0.99 IND -99 = 0.99 CAP
...				
60	3C	0	Error-register	ERROR – REGISTER BIT 0 = VOLTAGE ERROR BIT 1 = MODBUS-ERROR BIT 2 = OVERCURRENT
...				

Adress DEZ	Adress HEX	HIGH-BYTE	LOW-BYTE	Function
70	46	Display	Hardware	HARDWARE-IDENTIFIER REGISTER <hr/> <u>Display H-Byte:</u> 0 = LCD 1 = OLED <hr/> <u>Hardware L-Byte:</u> 0 = MMI 6000 (without output) 1 = MMI 6000-T (transistor-output) 2 = MMI 6000-R (relay-output)
71	47	OUTPUT configuration	Identifier	ID-REGISTER <hr/> <u>OUTPUT-configuration H-Byte:</u> 1 = current - trigger 2 = current - range 3 = cos-phi – trigger 4 = cos-phi – range 5 = temperature – trigger 6 = temperature – range 7 = bus – Error 8 = pulse-output (pulse / kWh) 9 = OFF (MODBUS-control) <hr/> <u>ID: L-Byte:</u> 2 = MMI 6000
72	48	*	*	CABINET-TEMPERATURE
73	49	0	BIT 0	OUTPUT <hr/> BIT 0 = Outputrelay / Opto-output
74	4A	*	*	VOLTAGE
75	4B	*	*	VOLTAGE
76	4C	*	*	VOLTAGE
77	4D	*	*	CURRENT
78	4E	*	*	CURRENT
79	4F	*	*	CURRENT
80	50	*	*	COS-PHI <hr/> example: 1000 = 1.000 999 = 0.999 IND -999 = 0.999 CAP
81	51	*	*	COS-PHI
82	52	*	*	COS-PHI
83	53	*	*	ACTIVE-ENERGY-consumption – H-word
84	54	*	*	ACTIVE-ENERGY-consumption – L-word

Adress DEZ	Adress HEX	HIGH-BYTE	LOW-BYTE	Function
85	55	*	*	Reactive power - H
86	56	*	*	Reactive power - L
87	57	*	*	Active power - H
88	58	*	*	Active power - L
89	59	*	*	Apparent power - H
90	5A	*	*	Apparent power - L
91	5B	*	*	Voltage
92	5C	*	*	Current
93	5D	0	*	Frequency
94	5E	0	*	Cabinet temperature
95	5F	*	*	COS-PHI example: 100 = 1.00 99 = 0.99 IND -99 = 0.99 CAP
96	60	Output configuration	Identifier	ID-REGISTER <u>OUTPUT-configuration H-Byte:</u> 1 = current - trigger 2 = current - range 3 = cos-phi – trigger 4 = cos-phi – range 5 = temperature – trigger 6 = temperature – range 7 = bus – Error 8 = pulse-output (pulse / kWh) 9 = OFF (MODBUS-control) OUTPUT = 1 + 128 (BIT 7) <u>ID L-Byte:</u> 2 = MMI6000
97	61	*	*	Active energy consumption – H
98	62	*	*	Active energy consumption – H
99	63	*	*	Active energy consumption – H
100	64	*	*	Active energy consumption – H
				PROGRAM MEMORY
101	65	0	*	LANGUAGE 0 = Deutsch 1 = English
102	66	0	*	CURRENT TRANSFORMER primary 1...50 = 5...250A (5A steps) 51...175 = 260...1500A (10A steps) 176...185 = 1550...2000A (50A steps) 186...245 = 2100...8000A (100A steps) 246...255 = 8500...13000A (500A steps)

Adress DEZ	Adress HEX	HIGH-BYTE	LOW-BYTE	Function
103	67	0	*	CURRENT TRANSFORMER secondary <hr/> 0 = 1A 1 = 5A
104	68	0	*	CONFIGURATION <hr/> 0 = DYNA-I-TRIGGER 1 = MMI – BR6000-T 2 = MMI – BR6000-R 3 = MMI – BR7000-C 4 = MMI – BR7000-C 5 = MMI – MODBUS RTU 6 = ASCII-OUT
105	69	0	*	Grid 1/3 phase <hr/> 1 = 1-phase 2 = 3-phase
106	6A	0	*	BAUD RATE <hr/> 0 = 9600 BAUD 1 = 19200 BAUD 2 = 38400 BAUD 3 = 57600 BAUD 4 = 115200 BAUD 5 = 128000 BAUD 6 = 250000 BAUD 7 = 256000 BAUD
107	6B	0	*	MODBUS-Adress <hr/> 1...255
108	6C	0	*	Bus check NO/YES <hr/> 0 = NO 1 = YES
109	6D	0	*	ASCII-transmit. interval <hr/> 1...255 sec.
110	6E	0	*	OUTPUT-CONFIGURATION <hr/> 3 = current - trigger 4 = current - range 5 = cos phi - trigger 6 = cos phi - range 7 = temperature - trigger 8 = temperature - range 9 = BUS - Error 10 = pulse / kWh 11 = without function

Adress DEZ	Adress HEX	HIGH-BYTE	LOW-BYTE	Function
111	6F	0	*	THRESHOLD – ON 1...99
112	70	0	*	THRESHOLD – OFF 1...99
113	71	0	*	CONNECTING TIME 1...255 = 1...255 s
114	72	0	*	DISCONNECTING TIME 1...255 = 1...255 s
115	73	0	*	DELAY TIME (DYNA-I-TRIGGER) 0...255 = 0...255 ms
116	74	0	*	BUS-ERROR 15 = @ ERROR output OFF 16 = @ ERROR output ON
...				
255	FF	60	60	Version ID H-Byte = 60 = MMI 6000 L-Byte = 60 = Version 6.0