

M200 Modbus table

4 DO

Release 23.9.2011 ver. 02000



- **max 11 words may be read out as a whole (i.e. 24 bytes)**
- **first 176 bits can be addressed bitwise (i.e. the whole map)**

Name	Address	Type	Description	Note
module ID LSB	1 LSB	R	module identification lower byte	module ID is 0020hex
module ID MSB	1 MSB	R	module identification upper byte	
firmware LSB	2 LSB	R	firmware version lower byte	14hex
firmware MSB	2 MSB	R	firmware version upper byte	
status LSB	3 LSB	R, W RAM	module status lower byte bit 0 – EEPROM write enable	
status MSB	3 MSB	R	module status upper byte bit 0 - 0 normal mode - 1 init mode bit 1 - 1 at the next EEPROM write attempt all data will be saved to EEPROM - 0 at the next write attempt received data will be written to RAM only bit 2 reserved bit 3 reserved bit 4 - 0 bit 5 - 1 bit 6 - 0 bit 7 - 1	
address	4 LSB	R,W EEPROM	module address (0x01)	The changes will become active only after module restart (the register is written immediately, but the new address is effective after restart)
baud rate (communication speed)	4 MSB	R,W EEPROM	no parity 10 _{dec} ... 1200 bps 11 _{dec} ... 2400 bps 12 _{dec} ... 4800 bps 13 _{dec} ... 9600 bps 14 _{dec} ... 19200 bps	The changes will become active only after module restart (the register is written immediately, the new baud rate is effective after restart)
relay	5 LSB	R,W RAM	relay outputs on / off	bit 0 is relay 1 bit 1 is relay 2 bit 2 is relay 3 bit 3 is relay 4
reserved	5 MSB	R,W RAM		
relay com	6 LSB	R,W EEPROM	0 – when no communication, relays stay in last state	bit 0 is relay 1 bit 1 is relay 2 bit 2 is relay 3

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			1 – when no communication, relays are set to relay state values	bit 3 is relay 4
relay state	6 MSB	R,W EEPROM	relays go on or off (according to corresponding bits) if there was no communication with module for a given time and in relay com the corresponding relay bit is set to 1	bit 0 is relay 1 bit 1 is relay 2 bit 2 is relay 3 bit 3 is relay 4
relay time	7 LSB	R,W EEPROM	time in [s] of no communication which is considered as communication failure	if set to 0 the function is disabled
relay start enable	7 MSB	R,W EEPROM	startup relay behaviour 0 – relays are not commanded 1 – the corresponding relay is set to its relay start value after module startup	bit 0 is relay 1 bit 1 is relay 2 bit 2 is relay 3 bit 3 is relay 4
relay start	8 LSB	R,W EEPROM	relay status between power-up and first bus command	if set to 0, the function is disabled
reserved	8 MSB	R, W RAM		
uptime 1	9 LSB	R	time in seconds since module power-up or reset	LSB
uptime 2	9 MSB	R		
uptime 3	10 LSB	R		
uptime 4	10 MSB	R		MSB
number of EE write cycles 1	11 LSB	R	number of EEPROM writing cycles (address, baud rate, range...), just for information	counter 0...FFFE; no overflow. When FFFE is reached, the counter stops.
number of EE write cycles 2	11 MSB	R		