M215 Modbus table
8 DO, manual override Release 22.9.2011 ver. 00300

domat control system

- **max 13 words may be read out as a whole (i.e. 26 bytes)**
- **first 208 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 0025hex
module ID MSB	1 MSB	R	module identification upper byte	
firmware LSB	2 LSB	R	firmware version lower byte	3hex
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 (comm speed)	4 MSB	R,W EEPROM	no parity 10dec … 1200 bps 11dec … 2400 bps 12dec … 4800 bps 13dec … 9600 bps 14dec … 19200 bps 15dec … 38400 bps 16dec … 57600 bps 17dec … 115200 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 7 is relay 8

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reserved	5 MSB	R,W RAM		
relay com	6 LSB	R,W EEPROM	**0** – when no communication, relays stay in last state **1** – when no communication, relays are set to **relay state** values	bit 0 is relay 1 ... bit 7 is relay 8
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 7 is relay 8
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 7 is relay 8
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		
manual	9 LSB	R, EEPROM	manual / auto mode **0**... the output is in **automatic** mode (controlled over bus) **1**... the output is in **manual** mode (overridden by buttons at the module)	bit 0 is relay 1 ... bit 7 is relay 8
manual value	9 MSB	R EEPROM	manual override status **0**... the output is set as **off** **1**... the output is set as **on**	bit 0 is relay 1 ... bit 7 is relay 8
uptime 1	10 LSB	R	time in seconds since module power-up or reset	LSB
uptime 2	10 MSB	R		
uptime 3	11 LSB	R		
uptime 4	11 MSB	R		MSB
number of EE write cycles 1	12 LSB	R	number of EEPROM writing cycles (address, baud rate...), just for information	counter 0...FFFE; no overflow. When FFFE is reached, the counter stops.
number of EE write cycles 2	12 MSB	R		
number of EE states 1	13 LSB	R	number of EEPROM writing cycles (pushbuttons man/aut, states), just for information	counter 0...FFFE; no overflow. When FFFE is reached, the counter stops.
number of EE states 2	13 MSB	R		