

# DRM-M-04 | MODBUS I/O MODULE WITH 4 RELAY OUTPUTS

Modbus register map



## MODBUS REGISTER MAP

### INPUT REGISTERS

		Data type	Description	Raw data	Values
1	Relay 1 status	unsigned integer	Status of Relay 1	0, 1	0 =OFF / Normal 1 =ON / Energised
2	Relay 2 status	unsigned integer	Status of Relay 2	0, 1	0 =OFF / Normal 1 =ON / Energised
3	Relay 3 status	unsigned integer	Status of Relay 3	0, 1	0 =OFF / Normal 1 =ON / Energised
4	Relay 4 status	unsigned integer	Status of Relay 4	0, 1	0 =OFF / Normal 1 =ON / Energised

**Note:** The input registers can be read via the Modbus command: "Read input registers".

### HOLDING REGISTERS

		Data type	Description	Raw data	Values	Factory default values
1	Device slave address	unsigned integer	Modbus device address	1–247		1
2	Modbus baud rate	unsigned integer	Modbus communication baud rate	0–6	0 = 4.800 1 = 9.600 2 = 19.200 3 = 38.400 4 = 57.600 5 = 115.200 6 = 230.400	2
3	Modbus parity	unsigned integer	Parity check mode	0–2	0 = 8N1 1 = 8E1 2 = 8O1	1
4	Device type	unsigned integer	Device type. <i>Read only</i>	2.409	2.409 = DRM-M-04	
5	HW version	unsigned integer	Hardware version of the device. <i>Read only</i>	XXXX	0x0100 = HW version 1.0	
6	FW version	unsigned integer	Firmware version of the device. <i>Read only</i>	XXXX	0x0100= FW version 1.0	

HOLDING REGISTERS						
		Data type	Description	Raw data	Values	Factory default values
7			Reserved, returns 0			
8	Modbus safety timeout	unsigned integer	Timeout setting for no Modbus communication. After time runs out, all relays will be set to OFF / Normal state	0–60	0 = no timeout 1 = 1 minute 2 = 2 minutes 60 = 60 minutes	0
9	Modbus resistor termination	unsigned integer	Modbus termination resistor	0, 1	0 = disconnected 1 = connected	0
10	Modbus registers reset	unsigned integer	Resets Modbus Holding registers to default values. When finished this register is automatically reset to '0'	0, 1	0 = Idle 1 = Reset Modbus Registers	0
11	Relay 1 control	unsigned integer	Setting of Relay 1 status	0, 1	0 = OFF / Normal 1 = ON / Energised	0
12	Relay 2 control	unsigned integer	Setting of Relay 2 status	0, 1	0 = OFF / Normal 1 = ON / Energised	0
13	Relay 3 control	unsigned integer	Setting of Relay 3 status	0, 1	0 = OFF / Normal 1 = ON / Energised	0
14	Relay 4 control	unsigned integer	Setting of Relay 4 status	0, 1	0 = OFF / Normal 1 = ON / Energised	0

**Note:** The holding registers can be managed via the following Modbus commands: "Read Holding Registers", "Write Single Register" or "Write Multiple Registers".

The free Sentera configuration and monitoring software **3SModbus** can be downloaded via: <https://www.sentera.eu/en/3SMCenter>