

MDACM1 | MODBUS TO ANALOGUE CONVERTER

Modbus register map



MODBUS REGISTER MAP

INPUT REGISTERS						
		Data type	Description	Raw data range	Values	
1	Output	unsigned integer	Output value	0–1.000	100 = 10,0 %	
2	Output type	unsigned integer	Analogue / Digital output type	1–3	1 = 0–10 VDC 2 = 0–20 mA 3 = PWM	
3–10			Reserved, return 0			

HOLDING REGISTERS						
		Data type	Description	Raw data range	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 3 = 38.400 6 = 230.400 1 = 9.600 4 = 57.600 2 = 19.200 5 = 115.200	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. Read only	2.403	MDACM1 = 2.403	
5	HW version	unsigned integer	Hardware version of the device. Read only	XXXX	0x0100 = HW version 1.00	
6	FW version	unsigned integer	Firmware version of the device. Read only	XXXX	0x0120 = FW version 1.20	
7			Reserved, returns 0			

HOLDING REGISTERS						
		Data type	Description	Raw data range	Values	Factory default values
8	Modbus timeout	unsigned integer	After time with no Modbus communication, outputs are set to 0.	0–60	0 = no timeout 1 = 1 minute, ...	0
9	Modbus network resistor termination (NBT)	unsigned integer	Set device as end device on the line or not by connecting NBT	0–1	0 = NBT disconnected 1 = NBT 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	Output type	unsigned integer	Select analogue / digital output type	1–3	1 = 0–10 VDC 2 = 0–20 mA 3 = PWM	1
12	Output value	unsigned integer	Value for output	0–1.000	0 = 0 % 1.000 = 100 %	0
13–16			Reserved, return 0			
17	PWM frequency	unsigned integer	PWM frequency output	1–8	1 = 1 kHz 8 = 8 kHz	1
18	PWM output	unsigned integer	Selection of PWM output type: Open collector (OC) / Pull-up +12 VDC	0–1	0 = Open Collector 1 = Pull-up +12 VDC	0
19–20			Reserved, return 0			

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