

SIG-M-2 | SENTERA INTERNET GATEWAY

Modbus register map



MODBUS REGISTER MAP

HOLDING REGISTERS						
		Data type		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	2.204	SIG-M-2 = 2.204	
5	HW version	unsigned integer	Hardware version of the device. Read only	XXXX	0x0100 = HW version 1.0	
6	FW version	unsigned integer	Firmware version of the device. Read only	XXXX	0x0110 = FW version 1.1	
7–8			Reserved, return 0			
9	Modbus network resistor termination (NRT)	unsigned integer	Set device as end device of the line / or not by connecting NRT	0, 1	0 = NBT disconnected 1 = NBT connected	0
10			Reserved, returns 0			
11	Connection type	unsigned integer	Ethernet or Wi-Fi connection	0, 1	0 = Ethernet 1 = Wi-Fi	0

HOLDING REGISTERS						
		Data type		Raw data range	Values	Factory default values
12	Connection mode	unsigned integer	DHCP or Static-IP	0, 1	0 = DHCP 1 = Static-IP	0
13	IP Address 1	unsigned integer	First value of the IP address, only modifiable when Reg. 12 is set to 1	0–255	192 = 192	192
14	IP Address 2	unsigned integer	Second value of the IP address, only modifiable when Reg. 12 is set to 1	0–255	168 = 168	168
15	IP Address 3	unsigned integer	Third value of the IP address, only modifiable when Reg. 12 is set to 1	0–255	1 = 1	1
16	IP Address 4	unsigned integer	Fourth value of the IP address, only modifiable when Reg. 12 is set to 1	0–255	123 = 123	123
17	Gateway Address 1	unsigned integer	First value of the Gateway address, only modifiable when Reg. 12 is set to 1	0–255	192 = 192	192
18	Gateway Address 2	unsigned integer	Second value of the Gateway address, only modifiable when Reg. 12 is set to 1	0–255	168 = 168	168
19	Gateway Address 3	unsigned integer	Third value of the Gateway address, only modifiable when Reg. 12 is set to 1	0–255	1 = 1	1
20	Gateway Address 4	unsigned integer	Fourth value of the Gateway address, only modifiable when Reg. 12 is set to 1	0–255	1 = 1	1
21	Subnet Mask 1	unsigned integer	First value of the Subnet Mask, only modifiable when Reg. 12 is set to 1	0–255	255 = 255	255
22	Subnet Mask 2	unsigned integer	Second value of the Subnet Mask, only modifiable when Reg. 12 is set to 1	0–255	255 = 255	255
23	Subnet Mask 3	unsigned integer	Third value of the Subnet Mask, only modifiable when Reg. 12 is set to 1	0–255	255 = 255	255

HOLDING REGISTERS

		Data type		Raw data range	Values	Factory default values
24	Subnet Mask 4	unsigned integer	Fourth value of the Subnet Mask, only modifiable when Reg. 12 is set to 1	0–255	0 = 0	0
25	DNS Server 1	unsigned integer	First value of the DNS Server, only modifiable when Reg. 12 is set to 1	0–255	8 = 8	8
26	DNS Server 2	unsigned integer	Second value of the DNS Server, only modifiable when Reg. 12 is set to 1	0–255	8 = 8	8
27	DNS Server 3	unsigned integer	Third value of the DNS Server, only modifiable when Reg. 12 is set to 1	0–255	8 = 8	8
28	DNS Server 4	unsigned integer	Fourth value of the DNS Server, only modifiable when Reg. 12 is set to 1	0–255	8 = 8	8

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>