

To change MODBUS address you will have to use 2 holding registers

1) Holding register #5

It's default value is 0x0106 (HEX reading - green line in table) and we can simplify the meaning into 2 separate bytes:

Modbus address: **01** Allowed values 01-7F (HEX) 01 means address 1
Baudrate: **06** Allowed values 01-10 (HEX) 06 means 19200bps (table of baudrates below)

To change the address simply write a new value into register. The sensor will change it's address/baudrate immediately. However the settings are not stored permanently yet. If you reset the device now (disconnect power and reconnect) it will communicate with the original settings.

To make the settings permanent you have to write command into another holding register (with new address/baudrate settings)

2) Holding register #11

Write value 0x0008 (HEX) or simply 8 into this register. Its value should be changed to 0x0000 (HEX) immediately as acknowledgment of the command.

Now the address/protocol/baudrate settings are stored permanently.

HOLDING REG. 5		PROTO	MODBUS ADDRESS								STOP	PARITY		BAUDRATE					
hex	decimal	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0		
0106	262	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	address 1 (DEFAULT)	
0206	518	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	address 2	
7F06	32518	0	1	1	1	1	1	1	1	0	0	0	0	0	1	1	0	highest address 127	

BAUDRATE

hex	decimal	4	3	2	1	0	
01	1	0	0	0	0	1	1200bps
02	2	0	0	0	1	0	2400bps
03	3	0	0	0	1	1	4800bps
04	4	0	0	1	0	0	9600bps
05	5	0	0	1	0	1	14400bps
06	6	0	0	1	1	0	19200bps (DEFAULT)
07	7	0	0	1	1	1	28800bps
08	8	0	1	0	0	0	38400bps
09	9	0	1	0	0	1	56000bps
0A	10	0	1	0	1	0	57600bps
0B	11	0	1	0	1	1	115200bps
0C	12	0	1	1	0	0	128000bps
0D	13	0	1	1	0	1	230400bps
0E	14	0	1	1	1	0	256000bps
0F	15	0	1	1	1	1	460800bps
10	16	1	0	0	0	0	921600bps

PROTOCOL

hex	dec	15	
0	0	0	Modbus RTU (DEFAULT)
1	1	1	Modbus ASCII

STOP BITS

hex	dec	7	
0	0	0	1 stop bit (DEFAULT)
1	1	1	2 stop bits

PARITY

hex	dec	6	5	
0	0	0	0	No parity (DEFAULT)
1	1	0	1	Odd parity
2	2	1	0	Even parity