

OR-WE-504

Communication rate: 9600
calibration : None
Data bit : 8
Stop bit: 1

Modbus instruction:

Read active energy: 01 03 00 07 00 02 75 CA

Return to active data: 01 03 04 00 00 0E D3 BF CE No. 1 meter energy //ED3=3795wh

Read volatge: 01 03 00 00 00 01 84 0A

Return: 01 03 02 08 D3 FE 19 //8d3=225.9v

current: 01 03 00 01 00 01 D5 CA

Return: 01 03 02 00 13 F9 89 //0013=1.9A

Read address: 01 03 00 0F 00 01 B4 09

Return to data: 01 03 02 00 01 79 84 //01=01

setting: 01 28 FE 01 00 02 04 00 00 00 00 FB 12 //00 00 00 00 password

return: 01 28 FE 01 00 01 C0 24

The above instruction is for removing the password, 10 seconds after carrying out this instruction,
then you could start writing operation.

write address: 01 10 00 0F 00 01 02 00 02 27 6E //new address is 02

return: 02 10 00 0F 00 01 31 F9

Write password: 02 10 00 10 00 02 04 11 11 11 11 64 82 //setting password 11 11 11 11

return: 02 10 00 10 00 02 40 3E

Active energy : 03 10 00 07 00 02 04 00 00 00 00 B9 F1 //clear energy

return: 03 10 00 07 00 02 F1 EB

Baud rate: 01 10 00 0e 00 01 02 00 01 66 be // 01 baud rate 1200

return: 01 10 00 0e 00 01 60 0a

02 baud rate 2400

03 baud rate 4800

04 baud rate 9600

Read kWh reading:

Meter address(1byte); Function code(1byte); Start address (2byte); Register count(2byte); CRC(2byte)

Such as :

01 03 00 00 00 03 05 CB //DATE: 01

02 03 00 00 00 03 05 f8 //DATE: 02

Return:

Meter address(1byte);Function code(1byte) ;data length (1byte) ;data (6byte) ;CRC(2byte)
12 03 06 00 00 00 01 00 3A 29 96

Password efficacy:

Meter address(1byte); Function code(1byte); Start address (2byte); Register count(3byte); Data(8byte);CRC(2byte)

Such as :

02 10 00 80 00 04 08 00 00 00 00 00 00 00 00 00 f7 05 //PASSWORD: 00000000 DATE: 02

02 10 00 80 00 04 08 00 12 00 34 00 56 00 78 94 f2 //PASSWORD: 12345678

01 10 00 80 00 04 08 00 00 00 00 00 00 00 00 00 b4 04 //PASSWORD: 00000000 DATE: 01

01 10 00 80 00 04 08 00 12 00 34 00 56 00 78 d7 f3 //PASSWORD: 12345678

Return:

Writr: 01 10 00 08 00 04 40 08 DATE: 01

Rong: 01 10 00 08 00 00 41 CB DATE: 01

Write new password:

Meter address(1byte);Function code(1byte) ;Start address (2byte) ; Register count(3byte) ;Data(8byte);CRC(2byte)

02 10 00 40 00 04 08 00 12 00 34 00 56 00 78 97 b3 // Write new password: 12345678

02 10 00 40 00 04 08 00 00 00 00 00 00 00 00 00 f4 44 // Write new password: 00000000

Return:

01 10 00 40 00 04 C0 1E DATE: 01

Write Password Remove:

00 28 fe 01 00 02 04 00 00 00 00 crc

10s is valid, red password

Write new address (after password removed):

Meter address(1byte); Function code(1byte); Start address (2byte); Data(1byte) ; CRC(2byte)

Such as :

01 06 00 06 00 02 e8 0a //DATE: 01 Write new address: 02

02 06 00 06 00 01 a8 38 //DATE: 02 Write new address: 01

Return:

01 06 00 06 00 02 e8 0a DATE: 01

address	Value	Holding Registers from 0 to 15.	Data format
0	Voltage	0 Napięcie (0,1V),	Decimal
1	current	1 Natężenie (0,1A),	Decimal
2	frequency	2 Częstotliwość (0,1Hz),	Decimal
3	active power	3 Moc czynna (1W),	Decimal
4	reactive power	4 Moc bierna (1var),	Decimal
5	apparent power	5 Moc pozorna (1VA),	Decimal
6	power factor	6 Współczynnik mocy (1000),	Decimal
7,8	active energy	7 i 8 Energia czynna (1Wh), UINT32 - Big Endian (ABCD)	Swapped long
9,A	reactive energy	9 i A Energia bierna (1varh), UINT32 - Big Endian (ABCD)	Swapped long
E	baud rate	E Prędkość transmisji:	Decimal
		1-1200	Decimal
		2-2400	Decimal
		3-4800	Decimal
		4-9600	Decimal
F	address	F Adres	Decimal