



30053	Total system power.	4	Float	W	00	34	√	√	√
30057	Total system volt amps.	4	Float	VA	00	38	√	√	√
30061	Total system VAr.	4	Float	VAr	00	3C	√	√	√
30063	Total system power factor (1).	4	Float	None	00	3E	√	√	√
30071	Frequency of supply voltages.	4	Float	Hz	00	46	√	√	√
30073	Import Wh since last reset .	4	Float	kWh	00	48	√	√	√
30075	Export Wh since last reset .	4	Float	kWH	00	4A	√	√	√
30077	Import VArh since last reset .	4	Float	kVArh	00	4C	√	√	√
30079	Export VArh since last reset .	4	Float	kVArh	00	4E	√	√	√
30201	Line 1 to Line 2 volts.	4	Float	V	00	C8	√	√	X
30203	Line 2 to Line 3 volts.	4	Float	V	00	CA	√	√	X
30205	Line 3 to Line 1 volts.	4	Float	V	00	CC	√	√	X
30207	Average line to line volts.	4	Float	V	00	CE	√	√	X
30225	Neutral current.	4	Float	A	00	E0	√	X	X
30343	Total kwh (3)	4	Float	kWh	01	56	√	√	√
30345	Total kvarh (3)	4	Float	kVArh	01	58	√	√	√

**Notes:**

1. The power factor has its sign adjusted to indicate the direction of the current. Positive refers to forward current, negative refers to reverse current.
2. The power sum demand calculation is for import – export.
3. Total kWh / kVarh equals to Import + export.

**Holding Registers**

Holding register are used to store and display instrument configuration settings. All holding registers not listed in the table below should be considered as reserved for manufacturer use and no attempt should be made to modify their values.

The holding register parameters may be viewed or changed using the Modbus Protocol. Each parameter is held in two consecutive 4X registers. Modbus Protocol Function Code 03 is used to read the parameter and Function code 10 is used to write. Write only to one parameter per message.

Address Register	Parameter Number	Parameter	Modbus Protocol Start Address Hex		Valid range	Mode
			High Byte	Low Byte		
40013	7	Pulse 1 Width	00	0C	Write pulse on period in milliseconds: 60, 100 or 200, default 200. <b>Length : 4 byte</b> <b>Data Format : Float</b>	r/w
40015	8	Access authority (write password to	00	0E	Read: to get status of the current access. 0: failed to get the access	r/w

		get the access and read the status of the access) (KPPA)			1 : already got the access Write: write correct password to get the access <b>Length : 4 byte</b> <b>Data Format : Float</b>	
40019	10	Parity / Stop	00	12	Write the network port parity/stop bits for MODBUS Protocol, where: 0 = One stop bit and no parity, default. 1 = One stop bit and even parity. 2 = One stop bit and odd parity.3 = Two stop bits and no parity. <b>Length : 4 byte</b> <b>Data Format : Float</b>	r/w
40021	11	Modbus Address	00	14	Write the network port node address: 1 to 247 for MODBUS Protocol, default 1. <b>Length : 4 byte</b> <b>Data Format : Float</b>	r/w
40023	12	Pulse 1 Rate	00	16	Write pulse rate index: n = 1 to 5 1--0.01kwh/imp 2--0.1kwh/imp 3--1kwh/imp 4-10kwh/imp 5-100kwh/imp <b>Length : 4 byte</b> <b>Data Format : Float</b>	r/w
40025	13	Password	00	18	Read: get password Write: change password <b>Length : 4 byte</b> <b>Data Format : Float</b>	r/w
40029	15	Network Baud Rate	00	1C	Write the network port baud rate for MODBUS Protocol, where: 0 = 2400 baud. 1 = 4800 baud. 2 = 9600 baud ( default). 5 = 1200 band <b>Length : 4 byte</b> <b>Data Format : Float</b>	r/w
40033	17	CT ratio	00	20	CT ratio ( Range: 0001—2000) <b>Default: 1</b> <b>Length : 4 byte</b> <b>Data Format : Float</b> (KPPA is asked)	r/w
40059	30	Time for scrolling	00	3A	Default: 0, Unit: s	r/w

		display			<p><b>Range: 0~30, ( 0 means close scrolling)</b></p> <p><b>Length : 4 byte</b></p> <p><b>Data Format : Float</b></p>	
40061	31	Time of back light	00	3C	<p>Default: 0. Unit: min</p> <p>Rang :0~120. ( 0 means the back light will work all the time )</p> <p><b>Length : 4byte</b></p> <p><b>Data Format : Float</b></p>	r/w
40087	44	Pulse 1 Energy Type	00	56	<p>Write MODBUS Protocol input parameter for pulse output 1:</p> <p>1: import active energy</p> <p>2: total active energy</p> <p>4: export active energy, default</p> <p>5: import reactive energy</p> <p>6: total reactive energy</p> <p>8: export reactive energy</p> <p><b>Length : 4 byte</b></p> <p><b>Data Format : Float</b></p>	r/w