

Register type: Holding, 8 data bit, Parity: Even, Stop bit: 1

Meter ID will use 01 as default, **baud rate 9600bps**, but 1200bps、2400bps、4800bps(optional)

| Meter ID (default) | Function Code | Register Address | Contents | Register No. | Read/Write | length | data mode |
|-----------------------|------------------|---------------------|----------------------|--------------|------------|--------|-----------|
| 01 | 03 | 0000 | Serial number | 1 | Read | 4 | |
| 01 | 03 | 0002 | Meter ID | 2 | Read | 2 | |
| 01 | 03 | 0003 | Baud Rate | 3 | Read | 2 | |
| 01 | 03 | 0004 | Software Version | 4 | Read | 4 | float |
| 01 | 03 | 0006 | Hardware Version | 5 | Read | 4 | float |
| 01 | 03 | 0008 | CT Rate | 6 | Read | 2 | |
| 01 | 03 | 0009 | S0 output rate | 7 | Read | 4 | float |
| 01 | 03 | 000B | Combined Code | 8 | Read | 2 | |
| 01 | 03 | 000C | HOLIDAY-WEEKEND T | 9 | Read | 2 | |
| 01 | 03 | 000D | Cycle time | 10 | Read | 2 | |
| 01 | 03 | 000E | L1 Voltage | 11 | Read | 4 | float |
| 01 | 03 | 0010 | L2 Voltage | 12 | Read | 4 | float |
| 01 | 03 | 0012 | L3 Voltage | 13 | Read | 4 | float |
| 01 | 03 | 0014 | Grid Frequency | 14 | Read | 4 | float |
| 01 | 03 | 0016 | L1 Current | 15 | Read | 4 | float |
| 01 | 03 | 0018 | L2 Current | 16 | Read | 4 | float |
| 01 | 03 | 001A | L3 Current | 17 | Read | 4 | float |
| 01 | 03 | 001C | Total Active Power | 18 | Read | 4 | float |
| 01 | 03 | 001E | L1 Active Power | 19 | Read | 4 | float |
| 01 | 03 | 0020 | L2 Active Power | 20 | Read | 4 | float |
| 01 | 03 | 0022 | L3 Active Power | 21 | Read | 4 | float |
| 01 | 03 | 0024 | Total reactive power | 22 | Read | 4 | float |
| 01 | 03 | 0026 | L1 reactive power | 23 | Read | 4 | float |
| 01 | 03 | 0028 | L2 reactive power | 24 | Read | 4 | float |
| 01 | 03 | 002A | L3 reactive power | 25 | Read | 4 | float |
| 01 | 03 | 002C | Total Apparent Power | 26 | Read | 4 | float |
| 01 | 03 | 002E | L1 Apparent Power | 27 | Read | 4 | float |
| 01 | 03 | 0030 | L2 Apparent Power | 28 | Read | 4 | float |
| 01 | 03 | 0032 | L3 Apparent Power | 29 | Read | 4 | float |
| 01 | 03 | 0034 | Total Power Factor | 30 | Read | 4 | float |
| 01 | 03 | 0036 | Power Factor | 31 | Read | 4 | float |
| 01 | 03 | 0038 | Power Factor | 32 | Read | 4 | float |
| 01 | 03 | 003A | Power Factor | 33 | Read | 4 | float |

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|----|----|------|----------|----|------|---|--|
| 01 | 03 | 003C | Time | 34 | Read | 8 | |
| 01 | 03 | 0040 | 时令开关 | 35 | Read | 2 | |
| 01 | 03 | 0041 | CRC CODE | 36 | Read | 2 | |

Correct Respond: 01(default) 03 02 data H 8bits data L 8bits CRC CRC

Incorrect Respond: 01(default) 83 wrong information code (address error and CRC error no return)

| | | | | | | | |
|----|----|------|----------------------------|----|------|---|-------|
| 01 | 03 | 0100 | Total Active Energy | 35 | Read | 4 | float |
| 01 | 03 | 0102 | L1 Total Active Energy | 36 | Read | 4 | float |
| 01 | 03 | 0104 | L2 Total Active Energy | 37 | Read | 4 | float |
| 01 | 03 | 0106 | L3 Total Active Energy | 38 | Read | 4 | float |
| 01 | 03 | 0108 | Forward Active Energy | 39 | Read | 4 | float |
| 01 | 03 | 010A | L1 Forward Active Energy | 40 | Read | 4 | float |
| 01 | 03 | 010C | L2 Forward Active Energy | 41 | Read | 4 | float |
| 01 | 03 | 010E | L3 Forward Active Energy | 42 | Read | 4 | float |
| 01 | 03 | 0110 | Reverse Active Energy | 43 | Read | 4 | float |
| 01 | 03 | 0112 | L1 Reverse Active Energy | 44 | Read | 4 | float |
| 01 | 03 | 0114 | L2 Reverse Active Energy | 45 | Read | 4 | float |
| 01 | 03 | 0116 | L3 Reverse Active Energy | 46 | Read | 4 | float |
| 01 | 03 | 0118 | Total Reactive Energy | 47 | Read | 4 | float |
| 01 | 03 | 011A | L1 Reactive Energy | 48 | Read | 4 | float |
| 01 | 03 | 011C | L2 Reactive Energy | 49 | Read | 4 | float |
| 01 | 03 | 011E | L3 Reactive Energy | 50 | Read | 4 | float |
| 01 | 03 | 0120 | Forward Reactive Energy | 51 | Read | 4 | float |
| 01 | 03 | 0122 | L1 Forward Reactive Energy | 52 | Read | 4 | float |
| 01 | 03 | 0124 | L2 Forward Reactive Energy | 53 | Read | 4 | float |
| 01 | 03 | 0126 | L3 Forward Reactive Energy | 54 | Read | 4 | float |
| 01 | 03 | 0128 | Reverse Reactive Energy | 55 | Read | 4 | float |
| 01 | 03 | 012A | L1 Reverse Reactive Energy | 56 | Read | 4 | float |
| 01 | 03 | 012C | L2 Reverse Reactive Energy | 57 | Read | 4 | float |
| 01 | 03 | 012E | L3 Reverse Reactive Energy | 58 | Read | 4 | float |
| 01 | 03 | 0130 | T1 Total Active Energy | 59 | Read | 4 | float |
| 01 | 03 | 0132 | T1 Forward Active Energy | 60 | Read | 4 | float |
| 01 | 03 | 0134 | T1 Reverse Active Energy | 61 | Read | 4 | float |
| 01 | 03 | 0136 | T1 Total Reactive Energy | 62 | Read | 4 | float |
| 01 | 03 | 0138 | T1 Forward Reactive Energy | 63 | Read | 4 | float |
| 01 | 03 | 013A | T1 Reverse Reactive Energy | 64 | Read | 4 | float |
| 01 | 03 | 013C | T2 Total Active Energy | 65 | Read | 4 | float |
| 01 | 03 | 013E | T2 Forward Active Energy | 66 | Read | 4 | float |
| 01 | 03 | 0140 | T2 Reverse Active Energy | 67 | Read | 4 | float |

| | | | | | | | |
|----|----|------|----------------------------|----|------|----|-------|
| 01 | 03 | 0142 | T2 Total Reactive Energy | 68 | Read | 4 | float |
| 01 | 03 | 0144 | T2 Forward Reactive Energy | 69 | Read | 4 | float |
| 01 | 03 | 0146 | T2 Reverse Reactive Energy | 70 | Read | 4 | float |
| 01 | 03 | 0148 | T3 Total Active Energy | 71 | Read | 4 | float |
| 01 | 03 | 014A | T3 Forward Active Energy | 72 | Read | 4 | float |
| 01 | 03 | 014C | T3 Reverse Active Energy | 73 | Read | 4 | float |
| 01 | 03 | 014E | T3 Total Reactive Energy | 74 | Read | 4 | float |
| 01 | 03 | 0150 | T3 Forward Reactive Energy | 75 | Read | 4 | float |
| 01 | 03 | 0152 | T3 Reverse Reactive Energy | 76 | Read | 4 | float |
| 01 | 03 | 0154 | T4 Total Active Energy | 77 | Read | 4 | float |
| 01 | 03 | 0156 | T4 Forward Active Energy | 78 | Read | 4 | float |
| 01 | 03 | 0158 | T4 Reverse Active Energy | 79 | Read | 4 | float |
| 01 | 03 | 015A | T4 Total Reactive Energy | 80 | Read | 4 | float |
| 01 | 03 | 015C | T4 Forward Reactive Energy | 81 | Read | 4 | float |
| 01 | 03 | 015E | T4 Reverse Reactive Energy | 82 | Read | 4 | float |
| 01 | 03 | 0300 | TIME interval 1 | 83 | Read | 24 | |
| 01 | 03 | 030C | TIME interval 2 | 84 | Read | 24 | |
| 01 | 03 | 0318 | TIME interval 3 | 85 | Read | 24 | |
| 01 | 03 | 0324 | TIME interval 4 | 86 | Read | 24 | |
| 01 | 03 | 0330 | TIME interval 5 | 87 | Read | 24 | |
| 01 | 03 | 033C | TIME interval 6 | 88 | Read | 24 | |
| 01 | 03 | 0348 | TIME interval 7 | 89 | Read | 24 | |
| 01 | 03 | 0354 | TIME interval 8 | 90 | Read | 24 | |
| 01 | 03 | 0360 | TIME zone | 91 | Read | 24 | |

Correct Respond: 01(default) 03 04 data H 8bits data L 8bits CRC CRC

Incorrect Respond: 01(default) 83 Wrong information code(address error and CRC error no return)

| | | | | | | | |
|----|----|------|-------------------|----|-------|----|-------|
| 01 | 06 | 0002 | Meter ID | 1 | Write | 2 | |
| 01 | 06 | 0003 | Baud Rate | 2 | Write | 2 | |
| 01 | 06 | 0008 | CT Rate | 3 | Write | 2 | |
| 01 | 10 | 0009 | SO OUTPUT | 4 | Write | 4 | float |
| 01 | 06 | 000B | Combined Code | 5 | Write | 2 | |
| 01 | 06 | 000C | HOLIDAY-WEEKEND T | 6 | Write | 2 | |
| 01 | 06 | 000D | Cycle time | 7 | Write | 2 | |
| 01 | 10 | 003C | Time | 8 | Write | 8 | |
| 01 | 10 | 0300 | TIME interval 1 | 9 | Write | 24 | |
| 01 | 10 | 030C | TIME interval 2 | 10 | Write | 24 | |
| 01 | 10 | 0318 | TIME interval 3 | 11 | Write | 24 | |
| 01 | 10 | 0324 | TIME interval 4 | 12 | Write | 24 | |

| | | | | | | | |
|----|----|------|-----------------|----|-------|----|--|
| 01 | 10 | 0330 | TIME interval 5 | 13 | Write | 24 | |
| 01 | 10 | 033C | TIME interval 6 | 14 | Write | 24 | |
| 01 | 10 | 0348 | TIME interval 7 | 15 | Write | 24 | |
| 01 | 10 | 0354 | TIME interval 8 | 16 | Write | 24 | |
| 01 | 10 | 0360 | TIME zone | 17 | Write | 24 | |

Correct Respond: 01(default) 06 register address H 8bits register address L 8bits data H 8bits data L 8bits CRC CRC

Incorrect Respond: 01(default) 86 Wrong information code (address error and CRC error no return)

Wrong Function Code

- 01 The received function code is invalid
- 02 Received register address is not existing
- 03 The received data is not comply with the requirement, generally writing data exceeds range
- 04 Equipment error, this program is not used

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| only for CT type meter have this function

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