

Modbus Communication Protocol for DZS100-1P

1. Communication Protocol Address

For Modbus Communication Protocol, the default address is **01**.

2. Definition and Operation for Function Code

Function Code	Definition	Operation
03	Read Registers Only	Read single or multiple registers
06	Write Single Register	Write hexadecimal single register
10	Write Continuous Multiple Registers	Write hexadecimal continuous multiple registers

3. Register Table for DZS100-1P

3.1 Read-only Parameters Zone (Function Code 03H)

Address (Decimal)	Address (Hexadecimal)	Function Code	Register Type	Parameters	Remark
00	0000	03H	Read Only	Combined Active Energy	0.01kWh, hexadecimal Negative number as complement
01	0001	03H	Read Only		
02	0002	03H	Read Only	Import Active Energy	0.01kWh, hexadecimal
03	0003	03H	Read Only		
04	0004	03H	Read Only	Export Active Energy	0.01kWh, hexadecimal
05	0005	03H	Read Only		
6	0006	03H	Read Only	Voltage	0.1V, hexadecimal
7	0007	03H	Read Only	Current	0.001A, hexadecimal
8	0008	03H	Read Only		
9	0009	03H	Read Only	Active Power	0.0001kW, hexadecimal Negative number as complement
10	000A	03H	Read		

			Only		
11	000B	03H	Read Only	Power Factor	0.001, hexadecimal Negative number as complement
12	000C	03H	Read Only	Frequency	0.01Hz, hexadecimal

3.2 Read/Write Parameters Zone (Function Code 03H, 06H, 10H)

Address (Decimal)	Address (Hexadecimal)	Register Type	Parameters	Remark
500	01F4	Read/ Write	Seconds	Decimal
501	01F5	Read/ Write	Minutes	Decimal
502	01F6	Read/ Write	Hour	Decimal
503	01F7	Read/ Write	Week	Decimal
504	01F8	Read/ Write	Day	Decimal
505	01F9	Read/ Write	Month	Decimal
506	01FA	Read/ Write	Year	Decimal
507	01FB	Read/ Write	Communication Address	Hexadecimal
550	0226	Read/ Write	Parity Baud Rate (0x08:1200; 0x10:2400; 0x20:4800; 0x40:9600, 0x80:19200)	Hexadecimal(Remark1)
0	0x00	Read	Reading Version	Hexadecimal, control code 0x53
551	0227	Write	Energy turns to 0	Hexadecimal

Remark 1 (please converting hexadecimal to binary)

Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
19200bps	9600bps	4800bps	2400bps	1200bps	reserved	reserved	reserved
Bit15	Bit14	Bit13	Bit12	Bit11	Bit10	Bit9	Bit8
reserved	reserved	reserved	reserved	reserved	Even-parity	Odd-parity	None-parity

0: not the present communication data.

1: the present communication data.

The factory default is 2400bps, E-8-1.