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8 channel analog input 4 channel analog output 8 switch input 8 relay Ethernet IO module

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Product Details	Feedback (2)	Shipping & Payment	Seller Guarantees	
Item specifics				Recently Viewed

Brand Name: HAOBA

Condition: New

Type: Logic ICs

Model Number: TCP-508N: 8AI 4AO 8DI 8DO

Supply Voltage: V

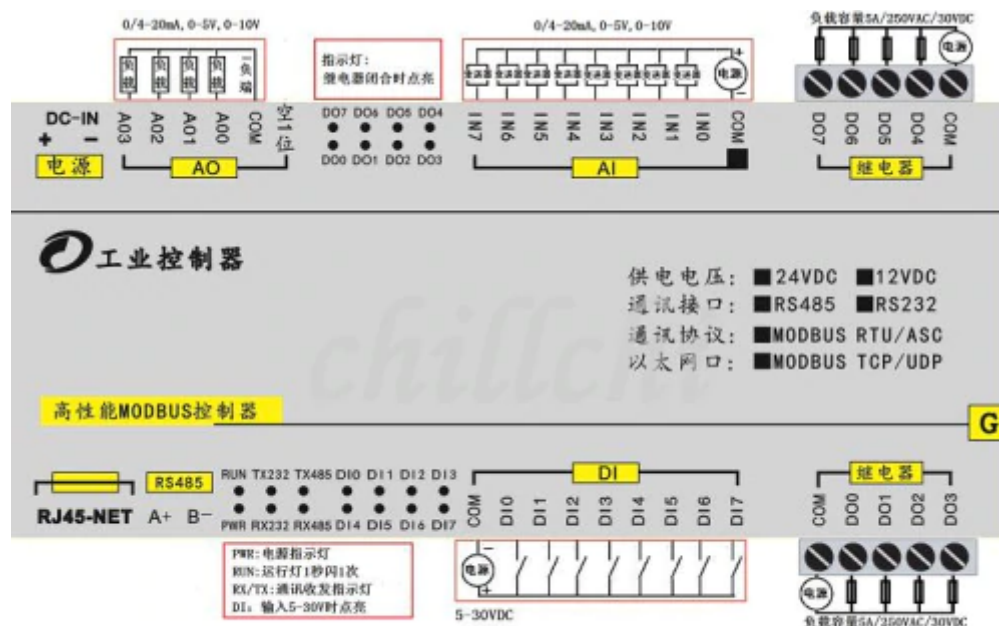
Dissipation Power: W

Operating Temperature: C

Application: 0

Product Description

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Note !

- Please read this manual carefully before operation!
- Please disconnect the input power before installing the wiring!
- Make sure the wiring is correct before turning on the power!
- Do not operate in flammable or explosive environments!
- Please operate within the specified voltage range!

Module Overview

Our general-purpose data acquisition module developed for various applications is widely used in buildings, HVAC, fire protection, water supply, petrochemical, and environmental protection industries. It is used by most system integrators and automation companies and research institutes. With a very high character ratio, stable and reliable data acquisition module.

=> Supports configuration software such as Kingview, force control, MCGS and so on.

=> Support RS232, RS485 interface, Modbus protocol touch screen, text screen;

=> Supports all standard Modbus device online communication;

System parameters

CPU	32-bit ATMEL ARM high-speed processor, 72MHZ
Operating system	GCOS, 10ms scheduling mechanism
Supply voltage	7-35VDC @2W, Reverse power protection, isolated design
Communication Interface	DC isolation design, 2500V lightning protection, ESD, overvoltage, overcurrent protection
Dimensions	Volume (length x width x height): 180x108x44 (mm)
Installation method	Screw or rail mounting
	
Environmental indicators	-40~85℃, 5%~95%RH Non condensation, IP20 protection
Hardware watchdog	1.5S hardware watchdog protection system
Channel isolation	2500VDC isolation, anti-jamming protection design

AI analog input

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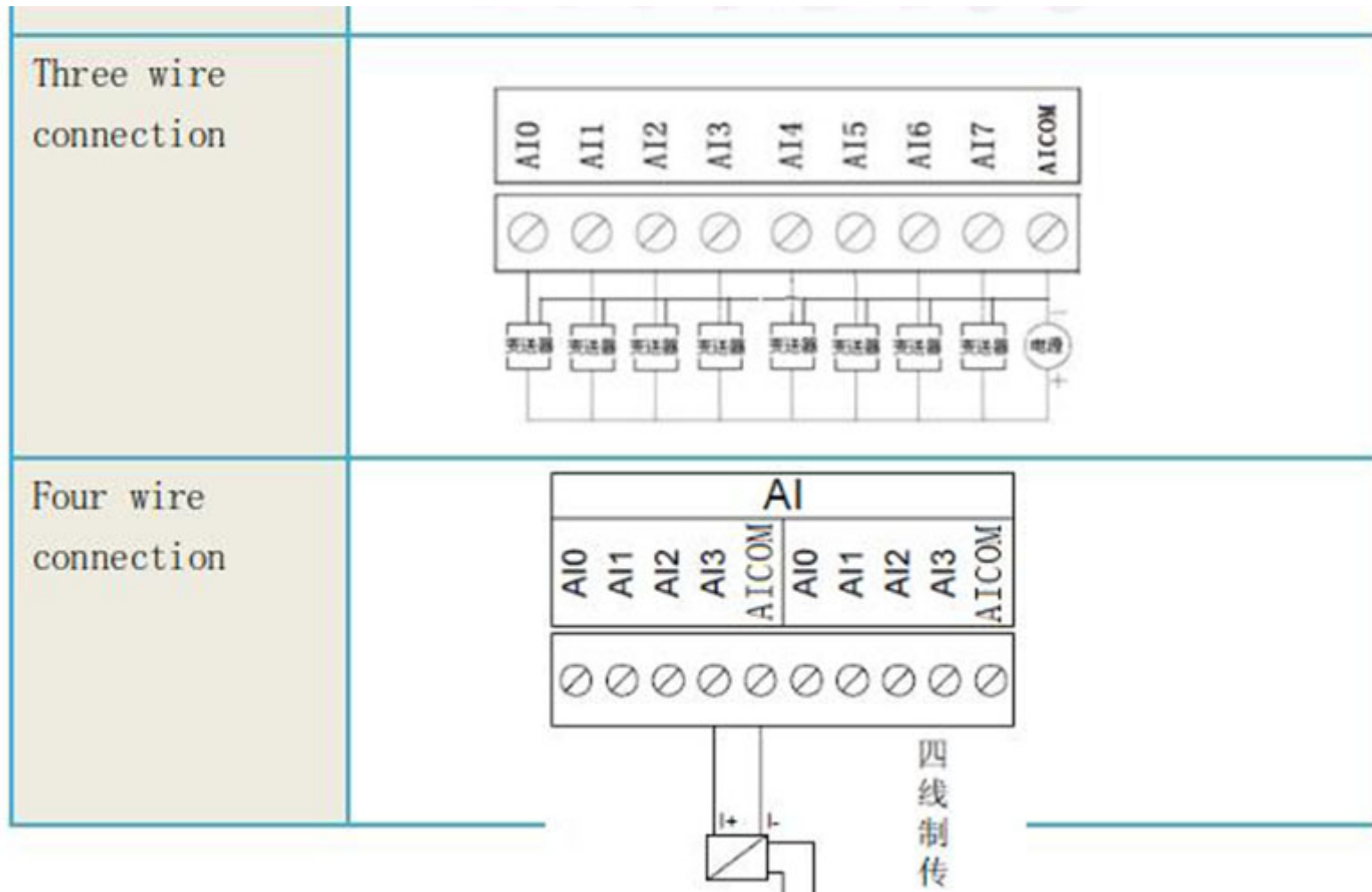
Modbus address	30001~30008, Function code:04	
Select the input type when purchasing	Current: 4~20mA<default> 0~20mA	Current-Voltage compatible Current: 4~20mA<default> 0~20mA Voltage: 0~5/1~5/0~10V
Type of input Configuration steps	Set the input type via "AI Configuration Software" Module open cover, each way has a jumper cap, can be pulled out: — jumper cap shorted 'chip' side 2 pin: "voltage type" — jumper cap shorted 'terminal' side 2 pin: "current type"	
Precision bit	0.1% accuracy, 16 bits	
Refresh frequency	0.01 seconds to update all I/O point data in the module	
Corresponding Modbus register reading	4~20mA: 10000~50000 <16 bit unsigned integer> 0~20mA: 00000~50000 0~5V : 00000~50000 0~10V : 00000~50000	
Current voltage	Register reading * (20 / 50000) = 4~20mA	

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Calculation formula	$\text{Register reading} * (20 / 50000) = 0 \sim 20\text{mA}$ $\text{Register reading} * (5 / 50000) = 0 \sim 5\text{V}$ $\text{Register reading} * (10 / 50000) = 0 \sim 10\text{V}$ For example: read register data 30001 = = 20000 The corresponding current = $20000 * (20 / 50000) =$
---------------------	---

	8mA
Engineering value conversion	Pseudo false assumes that the user peripheral / sensor 4mA corresponds to the sensor value: Pmin 20mA corresponding sensor value: Pmax Engineering value conversion result: Engineering value = $((P_{\text{max}} - P_{\text{min}}) / 40000) * (\text{register value} - 10000) + P_{\text{min}}$
Two wire system	

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《AI configuration software》	
Effect 1	Modify corresponding values; Factory default 4-20mA corresponds: 10000-50000< register >
Effect 2	Modify signal type: 0-5V、1-5V、0-10V、0-20mA; 4-20mA minimum 0mA: disconnected AI = 0, can be user-friendly to see if the wiring is bad; 4-20mA minimum 4mA: disconnected AI = 4mA, that is, AI reading is always greater than 4mA;

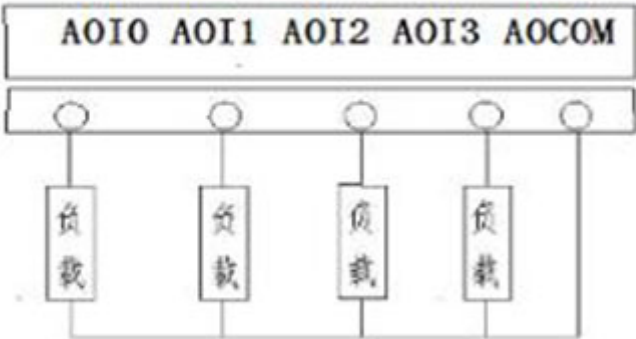
A0 analog output

Modbus address	40001~40004, Function code: 16 <Hex: 10H>	
Output type	Current: 4~20mA/0~20mA	Voltage: 0~5V/1~5V/0~10V
Output configuration	Factory default: 4 ~ 20mA / 0 ~ 20mA adaptive output; Configuration steps:	

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	1. Module open cover, each way has a jumper cap, can be pulled out; 2. Jumper cap closed: 1 ~ 5V / 0 ~ 5V / 0 ~ 10V adaptive output 3. Jumper cap is broken: 4 ~ 20mA / 0 ~ 20mA adaptive output
Output accuracy	0.2% accuracy, 12 bits
Load Resistance	Current output: load $R \leq 750\Omega$ Voltage output: load $R \geq 2K\Omega$
Data range	4~20mA Corresponding: 10000~50000 <Unsigned 16-bit integer> 0~20mA Corresponding: 00000~50000 1~5V Corresponding: 10000~25000 0~5V Corresponding: 00000~25000 0~10V Corresponding: 00000~50000
Calculation formula	4~20mA : Output value * (50000 / 20) 0~20mA : Output value * (50000 / 20) 1~5V : Output value * (50000 / 10) 0~5V : Output value * (50000 / 10) 0~10V : Output value * (50000 / 10)

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	Example: Output 6mA Register output value = 6mA * (50000/20) = 15000
Isolation scheme	2500V, high-speed optocoupler signal isolation
Output connection	模拟量输出接线 

Ethernet parameters

Communication Interface	RJ45 Interface
Communication	MODBUS TCP、MODBUS UDP protocol

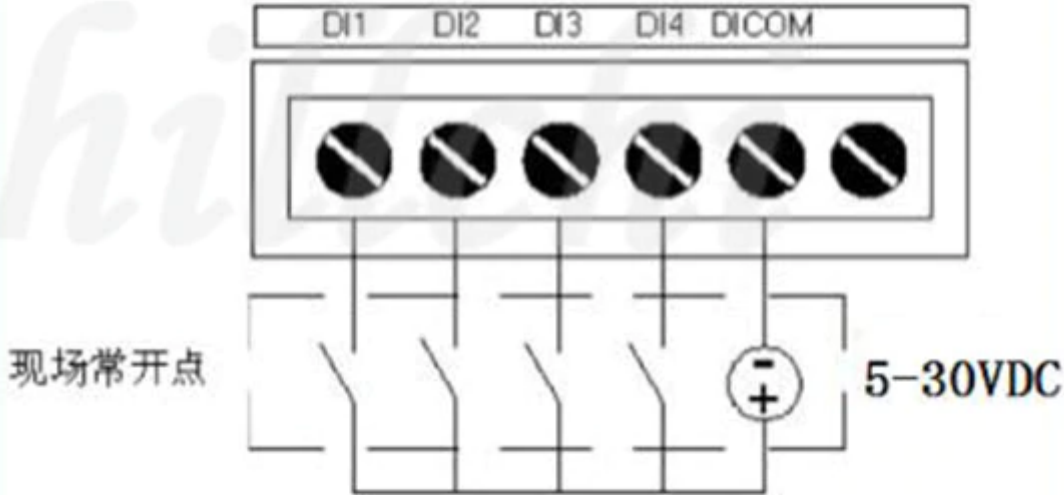
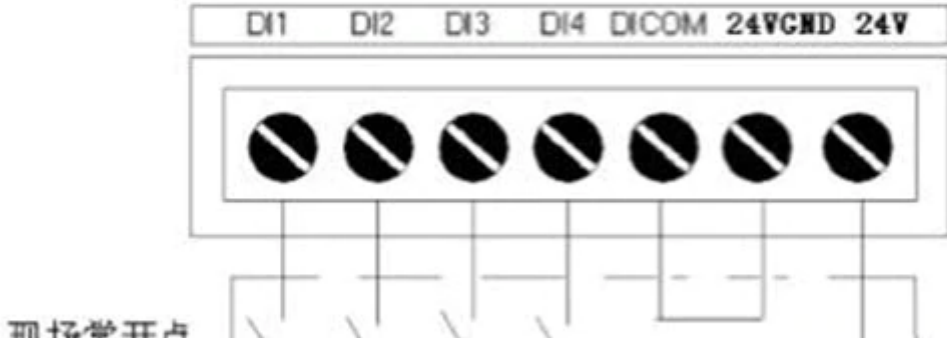
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protocol	
Communication rate	Communication with the host computer, 1000 times / second or more
Communication bandwidth	10M/100Mbps, Real high-speed Ethernet
IP address	192.168.1.75
Port number	502
Support network cable	Both crossover and straight-through cables are available, and the module can adapt itself
Configuration software	IP地址: 192 . 168 . 1 . 75 端口号: 502 子网掩码: 255 . 255 . 255 . 0 默认网关: 192 . 168 . 1 . 1

DI digital input

Modbus address	10001~10008: <Corresponding channel number>
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Input mode	Optocoupler isolation
ON level	5-30VDC, 6mA@24VDC
OFF level	0-3VDC
Isolation voltage	2500V, Lightning protection + optocoupler isolation + over-limit protection
Sampling rate	0.01S fast acquisition of all channel data
Connection method of wet node	
Connection method of dry	

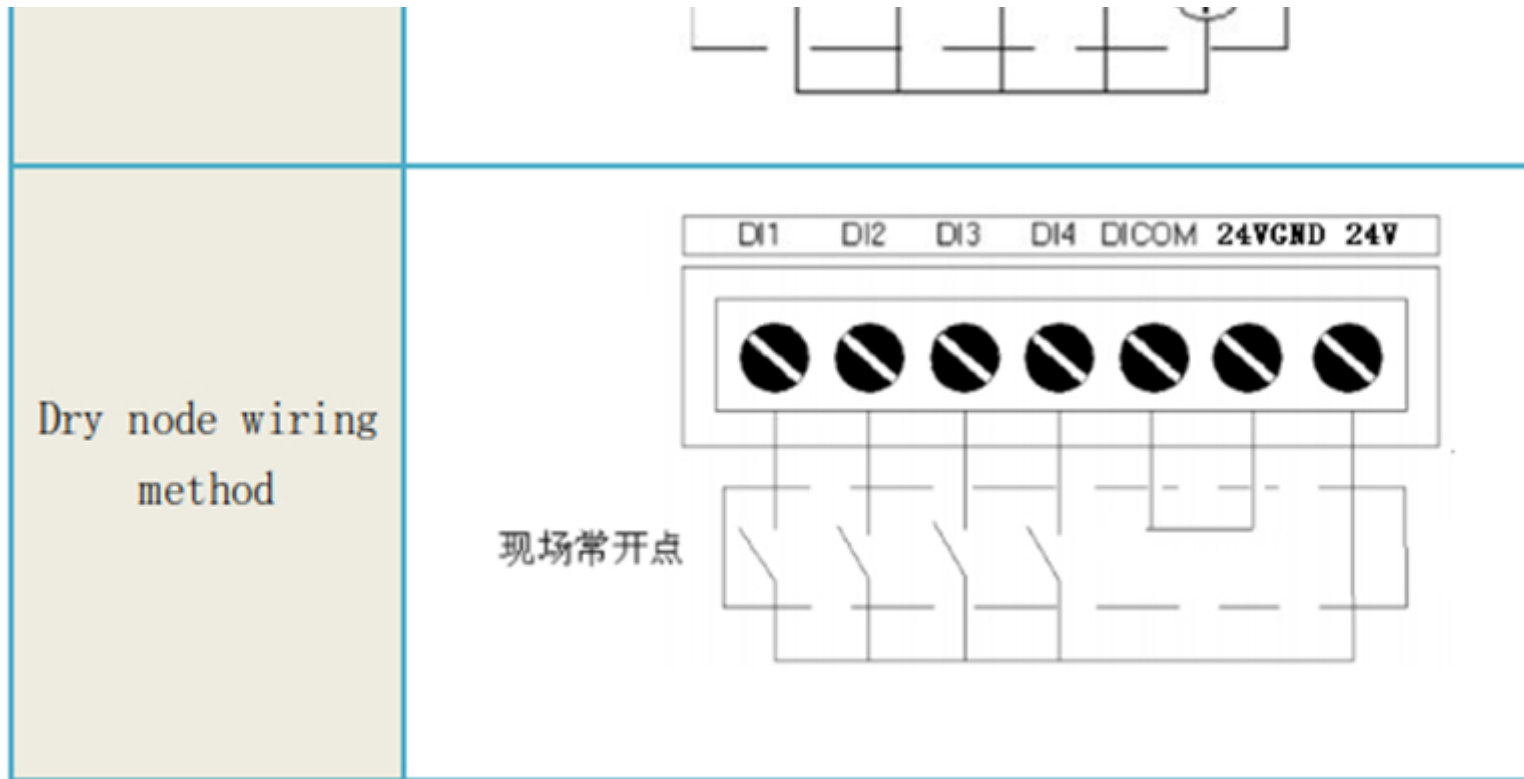
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DI digital input

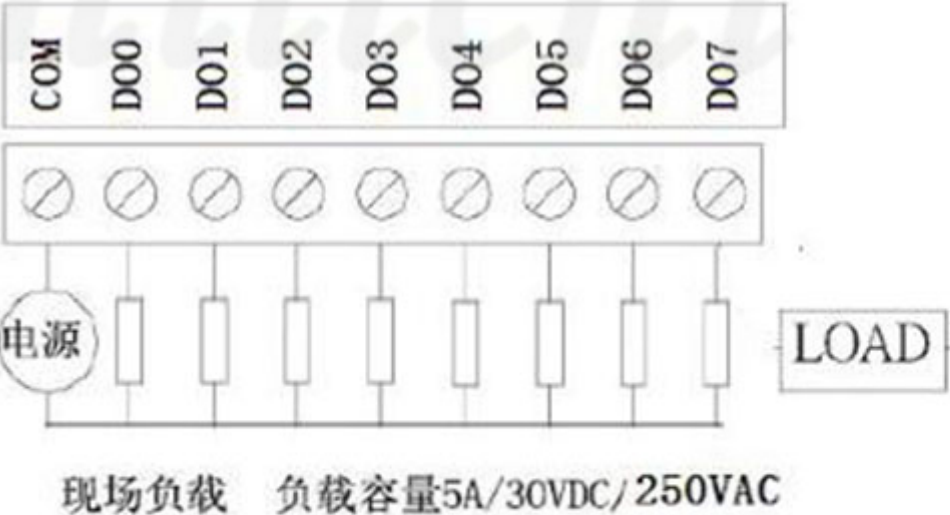
Modbus address	10001~10008: <Number of corresponding channels>
Input mode	Optocoupler isolation
ON level	5-30VDC, 6mA@24VDC
OFF level	0-3VDC
Isolation voltage	2500V, Lightning protection circuit + optocoupler isolation + overrun protection
Sampling rate	0.01 seconds to quickly collect all channel data
Wet node wiring method	

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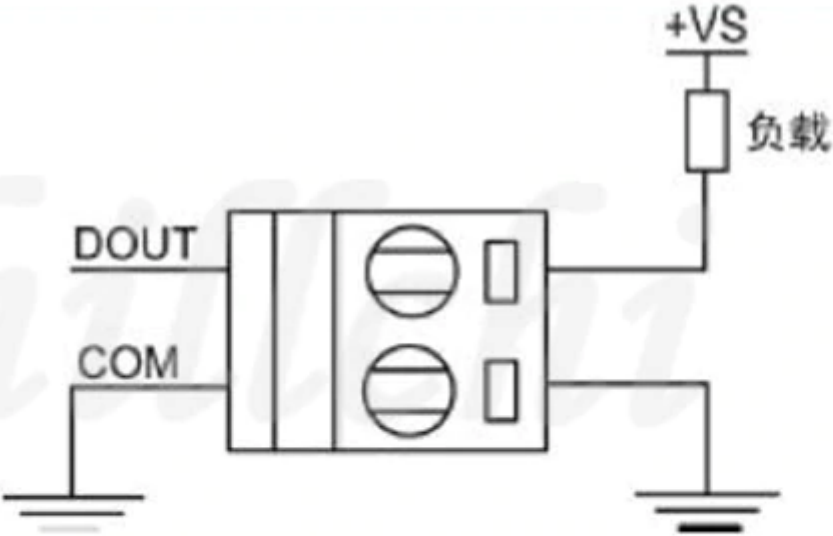
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D0 Relay output

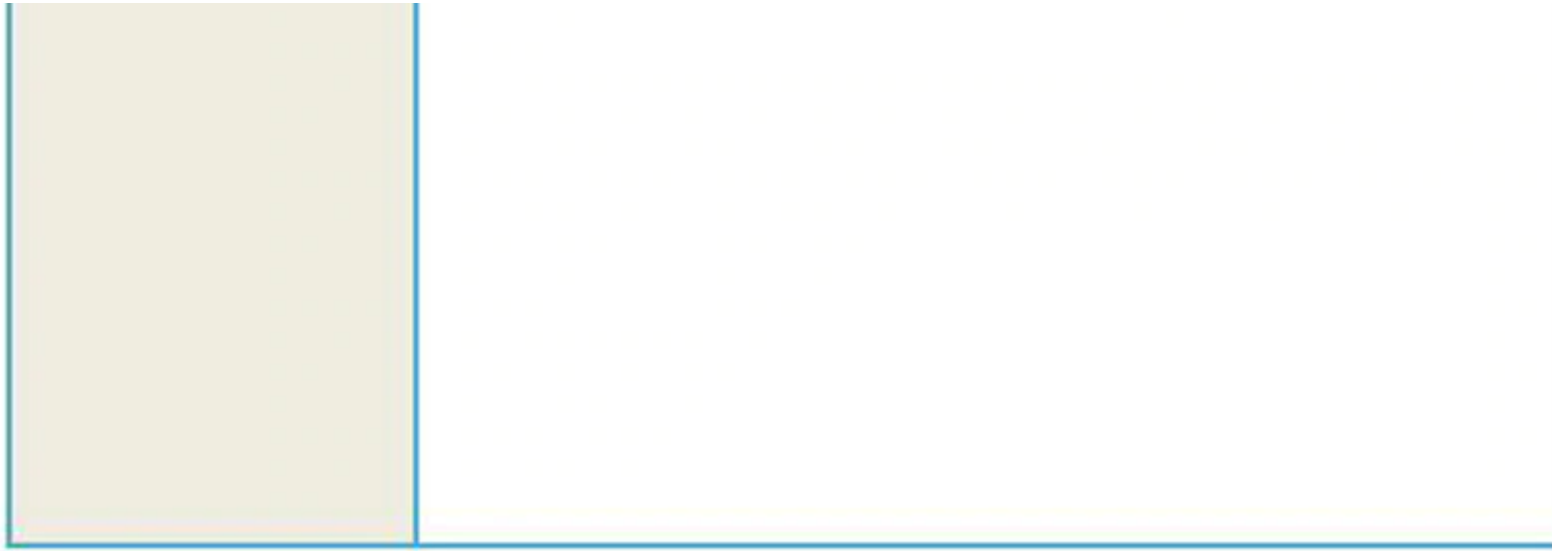
Output method	Normally open relay
Modbus address	00001-0000N: <Corresponding channel number>
Isolated design	Optocoupler isolation + relay isolation
Resistive load	5A/250VAC, 5A/30VDC
Response time	≤0.01S
Mechanical life	Rated 20 million times <Hongfa Relay>
Connection mode	

D0 transistor output

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output method	Collector NPN output
Modbus address	00001-00016
Isolation design	Optocoupler isolation
Load voltage	5~30V
Load current	100 mA
Wiring	
Equivalent Circuit	Need to connect the load on the output port and pull the power supply; Modbus register set to '1' transistor conduction, DOUT is low;

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Packaging Details

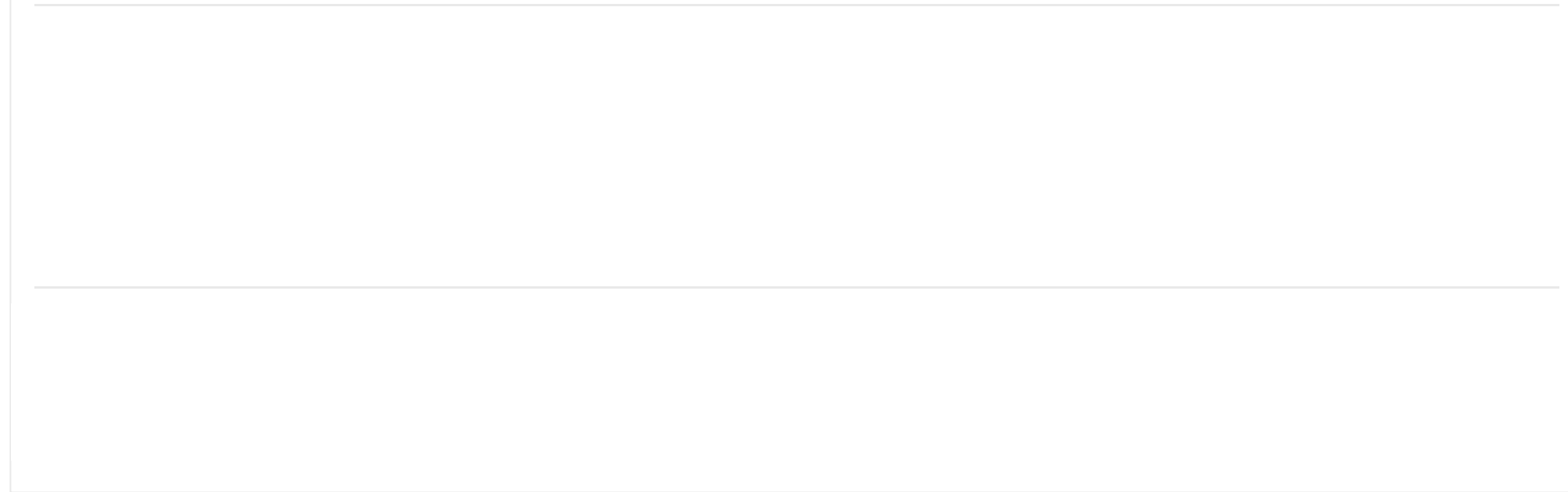
Unit Type: piece

Package Weight: 0.5kg (1.10lb.)

Package Size: 10cm x 10cm x 10cm (3.94in x 3.94in x 3.94in)

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