

Digital output current transmitter

Split core, Sub-plate mount, Crimping terminal output. Detect AC and pulse current, High insulation between primary side and the vice side circuit.





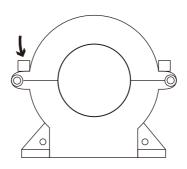


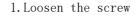


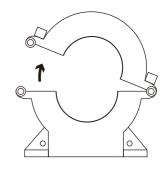
Product features

- ·Light weight
- •Low power consumption
- · Good linearity
- •No insertion loss
- Fast response time
- Good anti-interference ability

Installation diagram



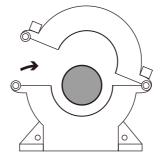




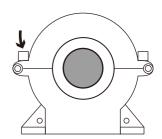
2. Open up

Product application

- Railway
- Metallurgical
- ·Welding machine
- Robot
- Motor
- •Inverter power supply
- · Variable frequency governor



3. In the lead



4. Tighten the screws

•Uninterrupted power supply and communication power supply



Electrical parameters: (The following parameters are typical values and actual values will be subject to product testing)						Remarks		
Rated input	500A	600A	800A	1000A	1500A	2000A	2500A	Standard input
Input measurement range	600A	720A	960A	1200A	1800A	2400A	3000A	Default is 1.2 times the input rating
Rated output	Hexadecimal measurements							
Accuracy		1 %						
Linearity		0.5%						
Supply voltage (\pm 5%)	$\pm 15 \text{V} / + 12 \text{V} / + 24 \text{V}$					Choose three		
Current consumption		≤ 50 mA					Reference will be subject to the measured	
Transmission distance		≤1000m						
Zero offset TA=25 °C	$\leq \pm 15 \mathrm{mV}$							
Response time		≤20ms					500 m transmission line, baud rate is 56000bps, even check test results	
Communication protocol		RS485 Modbus RTU						
Baud rate		9600bps(Acquiescence)						14400bps/19200bps/38400bps/56000bps(optional)
Device address range		0X01(Acquiescence)						0X01~0XF7(Can be modified)
Check digit		Parity check(Acquiescence)						Odd check/no check (optional)
Weight	1200g							
Operation temperature	-10~+70°C							
Storage temperature	-40~+85°C							
Band width	50-60Hz						Factory test	
Delectric strength	2.5KV 50Hz 1min							

Instruction for use:

- 1. Correct wiring as indicated
- 2. Full scale measurement, response time and following the speed for the best
- 3. Faulty wiring can lead to product damage and output uncertainty

Safe operation:

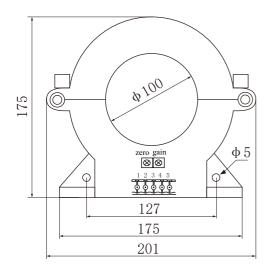
- *Please read this specification carefully before use.
- *When you need to move the product, please be sure to disconnect the power and all the connected cables.
- *If found shell, devices attached to the fixed parts, wire, or have any damaged, please immediately deal with hidden dangers.
- *If there is any doubt about the safe operation of the equipment, the equipment and the corresponding accessories should be closed immediately, and the fastest time for troubleshooting.

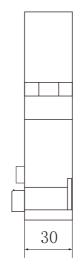
Proclamations:

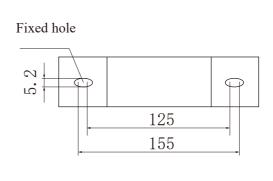
As our products are constantly being improved and updated, we reserve the right to modify the content of this specification at any time without prior notice.



Dimensions(in $mm\pm0.5$):







Connector Illustration:



Wiring diagram:

Crimping terminal plug, spacing 5.08 mm



1: +V

2: GND

3: N.C

4: A+

5: B-

1: +V

2: GND

3: -V

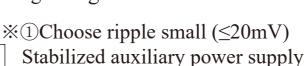
4: A+

5: B-

Potentiometer definition:

Left: zero

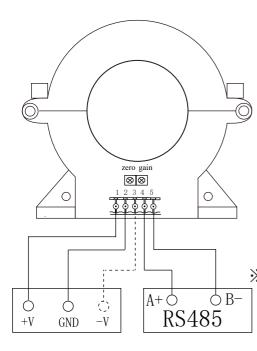
right: gain



②Switch on auxiliary power

3 Auxiliary power supply connection transmitter

4 The transmitter detects primary current



Communication protocol and instructions Y + 7

Model: THST100A-RS485

Power supply:

Rated input:

Check bit: Parity check(Acquiescence)

Baud rate: 9600bps (Acquiescence)

Device address: 0x01 (Acquiescence)

Output signal: The serial communication RS485 interface is adopted, the transmission mode is semi-duplex asynchronous, the starting bit is 1 bit, the data bit is 8 bits, the stop bit is 1 bit, the data transmission rate is 9600bps. Use RTU mode in MODBUS communication protocol.

Read data command

COMMAND (To command):

03

00

01

00

01

D₅

CA

RETURN (Return information):

0x01	0x03	0x02	0x0X	0xXX	0xXX	0xXX
Address of slave device	Function code	Register number	Data height	Low data	CRC-L	CRC-H

Start bit	Device address	Function code	Data	CRC	Check end
T1-T2-T3-T4	8Bit	8Bit	n个 8Bit	16Bit	T1-T2-T3-T4

After the upper computer issues the instruction, the slave device will normally respond within 50mS, and in extreme cases, the response time will not exceed 120mS.

Input/Output Table (theoretical value):

Current input (A)	RS485 output	corresponding decimal number
20%	0X0	
40%	0X0	
60%	0X0	
80%	0X0	
100%	0X0	
120%	0X0	

Note: (1) The input/output correspondence shall be negotiated between the manufacturer and the customer, and the signed version shall prevail

(2)1V corresponds to the decimal number 1000 and the RS485 output is 0X03E8

2V corresponds to the decimal digit 2000, RS485 outputs 0X07D0

Note: Please ensure that the upper and lower parts of the sensor are tightly connected so that the measured data are accurate; The sensor is accurately calibrated before leaving the factory, and the user generally does not need to re-calibrate.