

## Digital output current transmitter

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

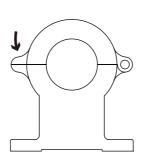


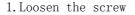


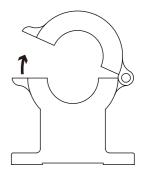
### Product features

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

# Installation diagram



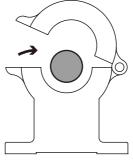




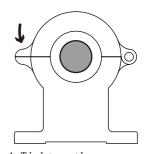
2. Open up

# 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	300A	500A	800A	1000A	1200A	1500A	2000A	Standard input
Input measurement range	360A	600A	960A		1440A		2400A	Default is 1.2 times the input rating
Rated output		Hexa	adecin	nal me				
Accuracy				1 %				
Linearity				1 %				
Supply voltage ( $\pm$ 5%)			±15V	/+12V	Choose three			
Current consumption				≤50m	Reference will be subject to the measured			
Transmission distance		≤1000m						
Zero offset TA=25 °C		$\leqslant$ $\pm$ 15mV						
Response time		≤20ms						500 m transmission line, baud rate is 56000bps, even check test results
Communication protocol		RS485 Modbus RTU						
Baud rate			9600bp	s(Acqu	14400bps/19200bps/38400bps/56000bps(optional)			
Device address range			0X01	Acquie	0X01~0XF7(Can be modified)			
Check digit		Parity check(Acquiescence)						Odd check/no check (optional)
Weight		650g						
Operation temperature		$-10\sim$ $+70$ °C						
Storage temperature		-40∼+85°C						
Band width		DC						Factory test

### Instruction for use:

Delectric strength

- 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.

2.5KV 50Hz 1min

- \*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.

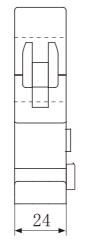


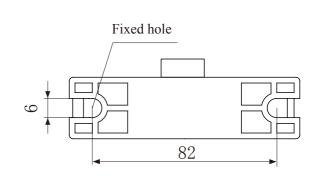
### Dimensions(in $mm\pm0.5$ ):

# 

#### Current direction







### Connector Illustration:



Crimping terminal plug, spacing 5.08 mm

### Wiring diagram:

Single power terminal definition: Double power terminal definition:



1: +V

2: GND

2: GND

3: N.C

3: -V

4: A+

4: A+

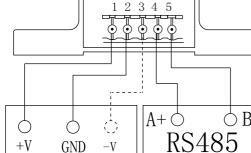
5: B-

5: B-

# Potentiometer definition:

Left: zero

right: gain



zero gain

**%**①Choose ripple small (≤20mV)

Stabilized auxiliary power supply

- ②Switch on auxiliary power
- ③Auxiliary power supply connection transmitter
- 4) The transmitter detects primary current

# 

Model: THST40D-RS485 Power supply: Rated input: Check bit: Parity check(Acquiescence)

Baud rate: 9600bps (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.

COMMAND(To command):

0×01 0×03 0×00 0×01 0×00 0×01 0×D5 0×CA

RETURN(Return information):

0×01 0×03 0×0X  $0 \times XX$ 0×XX 0×02  $0 \times XX$ Address of Function Register Data Low CRC-L CRC-H slave device height code number data

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

### 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.