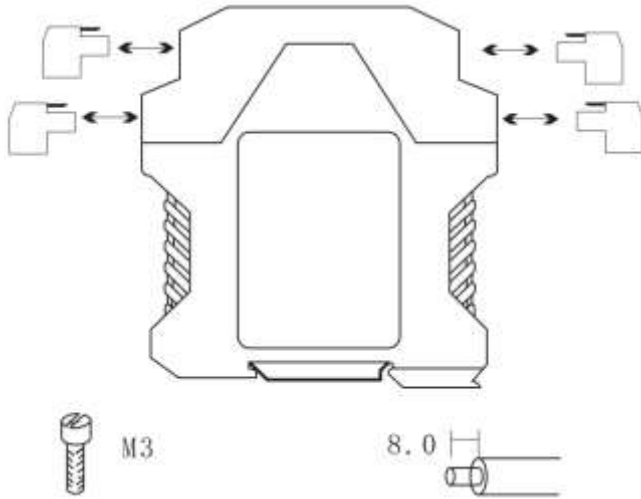


## Wiring

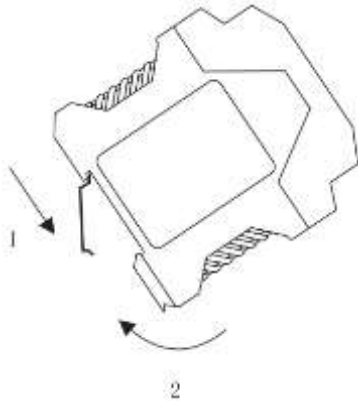
- (1) Removable terminal blocks are used for instrument wiring, which is convenient for use.
- (2) The exposed length of the conductor is about 8mm, which is locked by M3 screws.



## Install

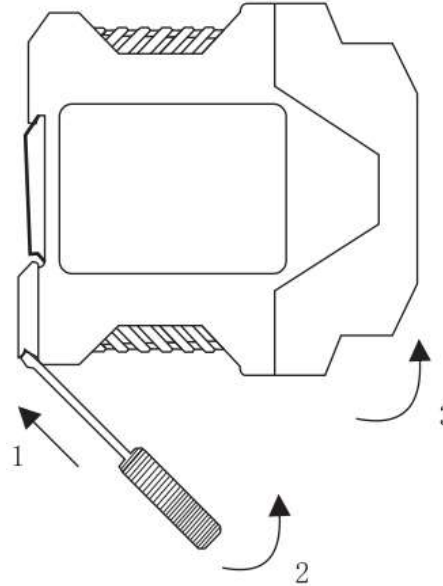
Current and voltage input power distribution isolators are installed with DIN35mm guide rail. The installation steps are as follows:

- (1) Clamp the upper end of the instrument on the guide rail.
- (2) Push the lower end of the instrument into the guide rail.



## Dismantle

- (1) Insert a screwdriver (blade width  $\leq 6\text{mm}$ ) into the metal lock at the lower end of the instrument;
- (2) Push the screwdriver up and pry the metal clip down;
- (3) Pull the instrument up and out of the guide rail.



## Maintenance

- 1) Before power-on commissioning of the signal isolator, the input and output wiring as well as their power supply and signal polarity must be checked again.
- 2) The products have been strictly inspected and quality controlled before leaving the factory. If you find that the work is abnormal or suspect that the internal module is faulty, please contact the nearest agent or directly contact the company's technical support hotline;
- 3) Within 36 months from the date of delivery, any product quality problem during normal use shall be repaired by our company free of charge.

## Current/voltage Input Distribution Isolator (Active Type) Instructions



## NOTICE

- Please check the product packaging, product label model, specifications are consistent with the order contract;
- Please read this manual carefully before installation and use. If you have any questions, please contact our technical support hotline;
- The product need to installed in a safe place;
- 24V DC power supply for instrument, 220V AC power supply is strictly prohibited;
- It is strictly prohibited to disassemble and assemble the instrument without permission to prevent instrument failure or failure.
- The Company reserves the right to change the product without prior notice to the user. In case of any discrepancy between the contents of the instructions and the website, samples and other materials, the instructions shall prevail.
- Please scan the code for more product information and configuration software.



Micro cloud



Baidu cloud disk

**Profile**

Current/voltage input distribution isolator, DC24V or AC220V power supply, provide isolated distribution power supply for on-site transmitter, and realize the conversion of voltage, current, mV and other signals.

Input interface current source, two-wire system and three-wire system transmitter are universal, and efficient magneto-electric isolation technology is adopted internally. Input, output and power supply are isolated from each other, with high accuracy, high linearity, low temperature drift and other characteristics.

SELECTION TABLE				
THP-IP/U	X	X	X	Instructions
Channel	1			1 IN / 1 OUT
	2			1 IN / 2 OUT
	3			1 IN / 3 OUT
	4			1 IN / 4 OUT
	5			2 IN / 2 OUT
	7			2 IN / 4 OUT
Input Signal	1			4-20mA
	2			0-20mA
	3			0-5V
	4			0-10V
	S			Customer customization
Output Signal	1			4-20mA
	2			0-20mA
	4			0-5V
	6			0-10V
	S			Customer customization

**Main Technical Parameters**

**Input**

Input signal:4-20mA,0-20mA,0-75mV,0-5V,0-10V  
 Power distribution:Open-circuit voltage≤25VDC; (20mA)Voltage:≥15V  
 Normal working current: ≤25mA

Input impedance:Current input≤50Ω; Input voltage≥300KΩ

**Output**

Output signal:4-20mA,0-20mA,0-5V,0-10V  
 Output load resistance:RL≤500Ω(Output is current signal)  
 RL≥10KΩ(Output is voltage signal)

Supply voltage:DC24V,±10% or AC85-265V

**Current Consumption:**

≤50mA(1 IN/1 OUT,24V,Power distribution input,when 20mA Output)  
 ≤70mA(1 IN/2 OUT,24V,Power distribution input,when 20mA Output)

≤100mA(2 IN/2 OUT,24V,Power distribution input,when 20mA Output)  
 ≤120mA(1 IN/3 OUT,24V,Power distribution input,when 20mA Output)  
 ≤140mA(1 IN/4 OUT,24V,Power distribution input,when 20mA Output)  
 ≤160mA(2 IN/4 OUT,24V,Power distribution input,when 20mA Output)  
 Basic Accuracy:±0.1%F.S

Temperature Drift: 0.005%F.S/°C (-20°C~+55°C)

Response Time: ≤10ms (0-90%)(TYP)

Dielectric Strength: 1500V AC/1 min (among input/output/power supply)

Insulation Resistance: ≥100MΩ (among input/output/power supply)

Operating Temperature Range: -20~+55°C

Electromagnetic Compatibility: In accord with GB/T18268(IEC61326-1)

Suit for Field Equipment:Two wire,three wire transmitter,voltage source,current source signal.

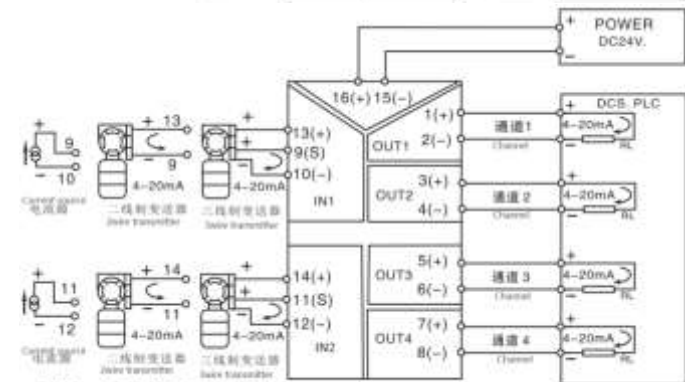
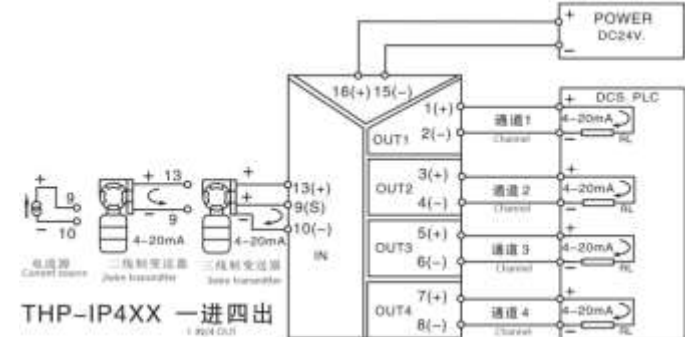
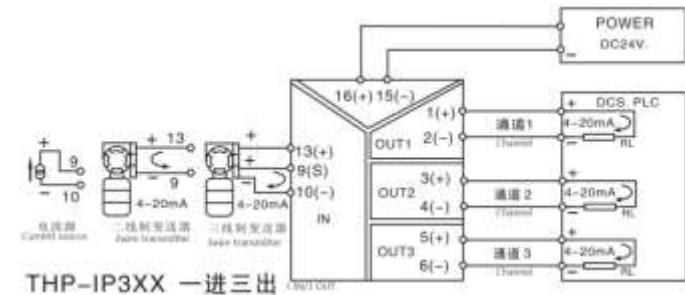
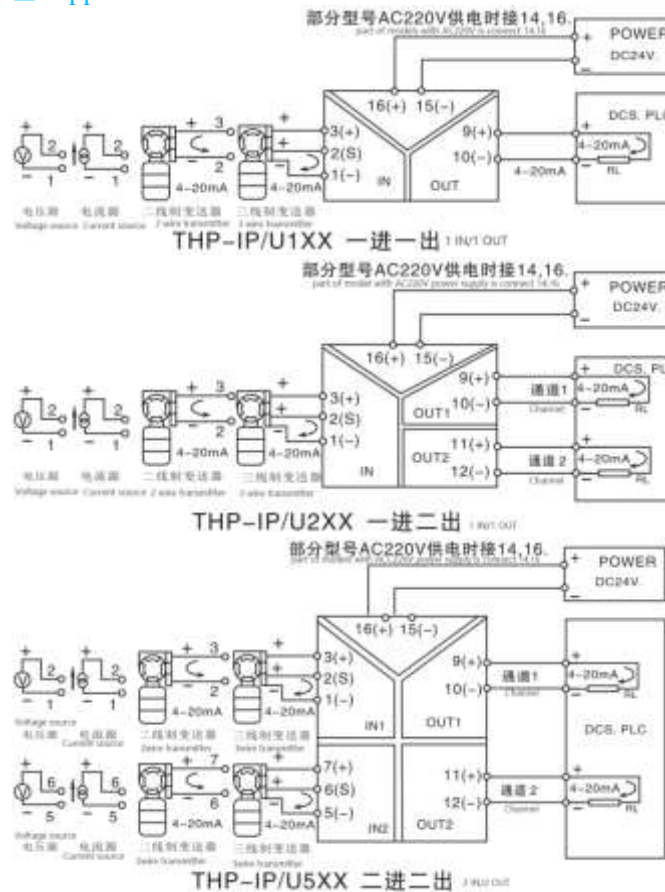
**Operational environment**

(1)The surrounding environment shall be free of strong vibration, impact, large current, spark and other electromagnetic induction effects. The air shall not contain corrosive media for chromium, nickel and silver coatings, and shall not contain flammable and explosive substances.

(2)Storage temperature: -40°C~+80°C

(3)Relative humidity:10%~90%RH

**Application**



**Wiring Diagram**

