

THP-I/U Series Current/Voltage Input Distribution Isolators (Loop power supply)

- The THP-IP series passive isolator is used to connect to on-site two wire transmitters, provide power to them, and receive 4-20mA current signals from the two wire equipment output. After isolation, it outputs a 4-20mA current signal. Adopting a two wire loop power supply method, there is no need for external power supply.
- The THP-I/U series passive isolator receives DC current or DC voltage signals from the site, and after interference suppression, isolates and outputs a 4-20mA current signal. Adopting a two wire loop power supply method, there is no need for external power supply.

SELECTION TABLE				
THP-I/U	X	X	X	Instructions
Channel	1			1 IN 1 OUT
	2			1 IN 2 OUT
	5			2 IN 2 OUT
Input Signal		1		4-20mA
		2		0-20mA
		4		0-75mA
		5		0-5V
		7		0-10V
Output Signal		0		4-20mA(Output side power supply)

Note: Customers need to determine the input signal form and output signal form when placing an order. If there are special needs, they can customize it

Product Selection

THP-IXXX
EG: THP-IS10,1 IN/1 OUT,Loop power supply,Input:0-5V,output 4-20mA.
THP-IPXXX
EG: THP-IP110,Distribution type,1 IN/1 OUT,Loop power supply,Input&output: 4-20mA.

MAIN TECHNICAL PARAMETERS

Input

Input signal: 4-20mA;0-20mA;0-75mA,0-5v,0-10v etc.
Input impedance: Current input: ≤100Ω;voltage input: ≥300KΩ

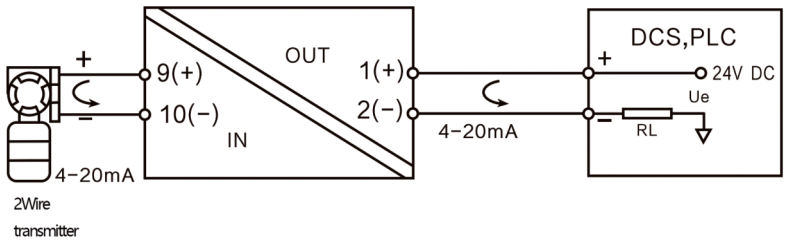
Output

Output signal:4-20mA
Output load resistance:RL ≤500Ω(Output is current signal)

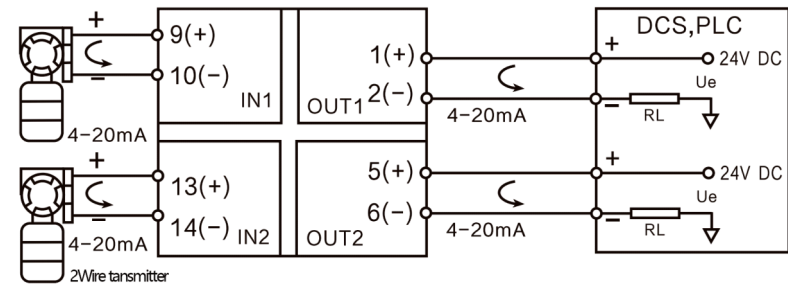
Basic Parameter

Power supply: None
Basic accuracy: 0.2%F.S
Temperature drift:0.005%F.S/°C (-20°C~+55°C)
Response time:≤10mS(0-90%)(TYP)
Insulation strength:1500VAC/1min(Between input,output and power)
Insulation resistance:≥100MΩ(Between input,output and power)
Working temperature range:-20~+55°C
Electromagnetic Compatibility: According to GB/T 18268.1(IEC61326-1)
Applicable Field Equipment: 2Wire transmitter,current source, voltage output equipment.

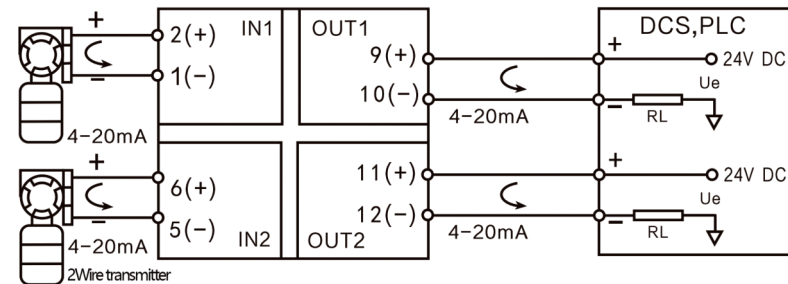
WIRING DIAGRAM



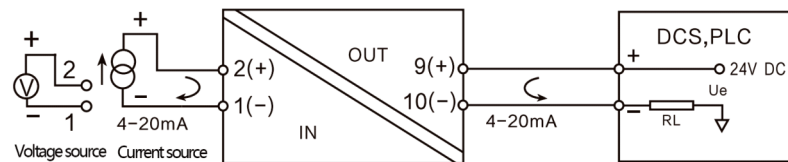
THP-IP110 1 IN 1 OUT



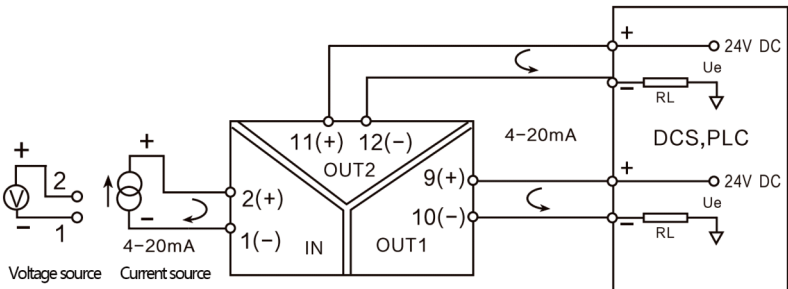
THP-IP510 2 IN 2 OUT



THP-IP510L 2 IN 2 OUT



THP-I110 1 IN 1 OUT



THP-I210 1 IN 2 OUT



OVERALL DIMENSION

