TTIR Temperature transmitter

WINTERS Instruments
Excellence Since 1953

Specific&Performance

- Adjust the range by 4 switches on site
- Pre-set 15 groups of range
- Input signal: Pt100, Cu50, Pt1000
- Anti-lightning and electric impulse design;
- Max isolation voltage between input and output: 4kV
- Working temperature: -40...85C
- Low consumption, high performance in temperature drift and long term stability

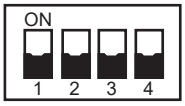
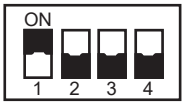
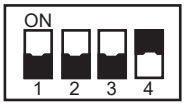
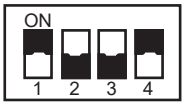
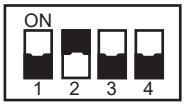
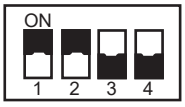
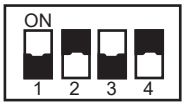
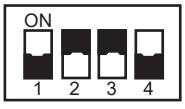
Application

- Petrochemical
- Mechenical engineering
- Power Plant
- Natural gas
- Food / Pharmaceutical

Specification

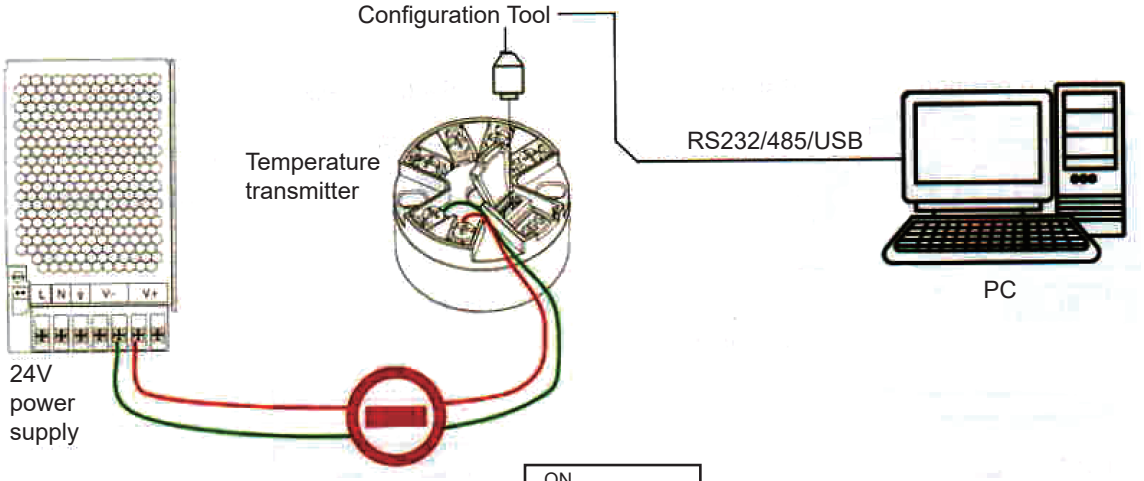
Input signal	Pt100, Cu50, Pt1000		
Sensor type	2-wire, 3-wire, 4-wire		
Range	-200...850℃		
Output signal	4-20mA 2-wire		
Accuracy	0.2%FS		
Temperature drift	0.008%FS per℃		
Power supply	9...30VDC 2-wire power supply		
Load	RL≤(Us-9V)125mA		
Environment temperature	-40...85℃		
Alarm signal	≥21.5 mA / <3.6 mA		
Stability	0.1℃year		
iP protection	IP40		
Electric protection	Reversed polarity protection	Shortage protection	Lightning protection
	Pratected	Pratected	Pratected
Range adjustment	By switches or PC programming		
Start time	≤10s		
Response time	≤1s		
Min range	10°C		
Weight	40g		

Range Switch Setting

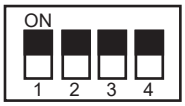
Switch position	Range	Switch position	Range
	0...50℃		-50...50℃
	0...100℃		-50...100℃
	0...150℃		-50...150℃
	0...200℃		-50...200℃
	0...250℃		-50...250℃
	0...300℃		-50...300℃
	0...400℃		-50...400℃
	0...500℃		Programming

*Pre-set range is for Pt100 3-wire

PC programming



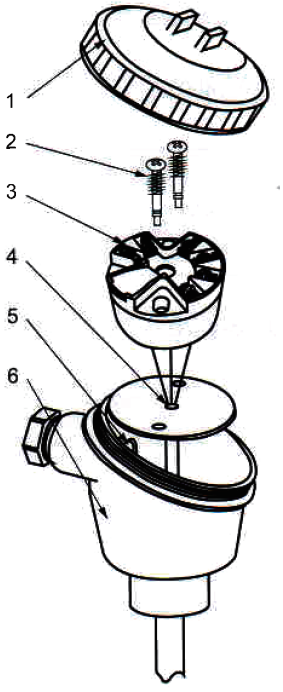
- When use PC programming , switch position:



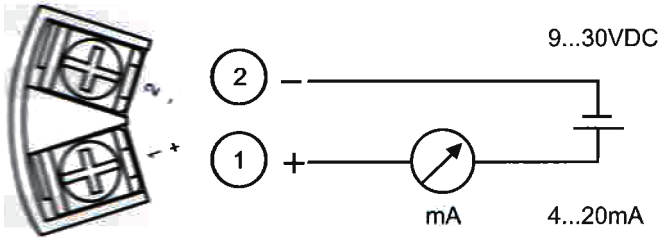
- Supply 9...30V DC voltage
- Available input signal: Pt100,Pt1000,Cu50 or 0-1OKΩ
- Available wire connection: 2-wire,3-wire,4-wire;
- The cable error of 2-wire could be compensated by programmer software
- Customer can define the linearity of output signal when input signal is 0-1OKΩ

Transmitter installation diagram

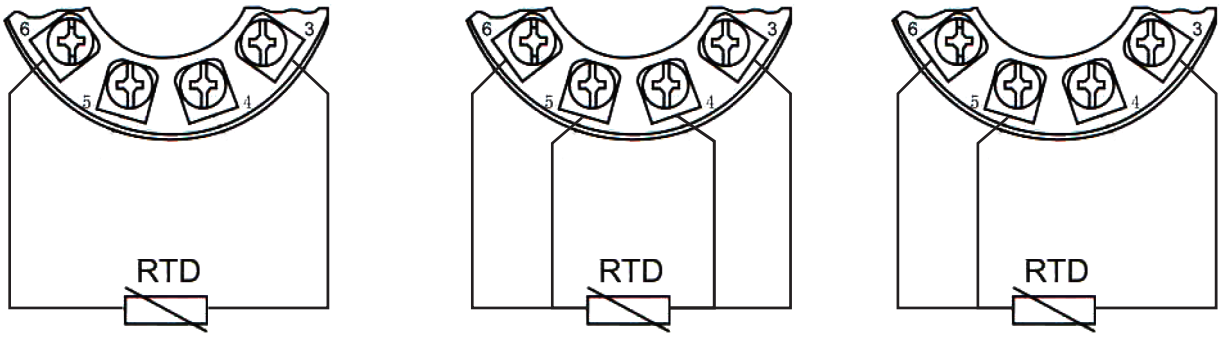
1: Protection cap
2: Lock screw
3: Temperature transmitter
4: Sensor connection wire
5: Cable outlet
6: Housing



Electrical connection

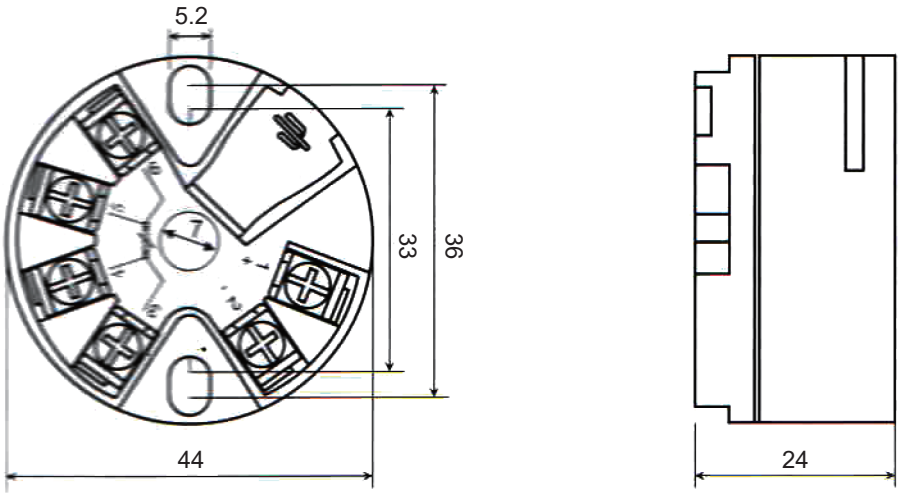


Sensor connection



2-wire　　3-wire　　4-wire

Dimensions(mm)



TTIR Series ordering code

		Code	Technical parameters
1.		TTIR	**Series**
			Input signal
2.		001	Pt100
		002	Cu50
		003	Pt1000
			Default setting
3.		0	Standard
		C	Customer request