

## TEMPERATURE TRANSMITTER TT61 SERIES



### Product manual:

- Model
- Parameter
- Temperature Accuracy Graph (analog output type)
- Wiring Instructions
- Dimension
- Installation

### Note important:

- The parameters involved are all measured under laboratory conditions, such as in the special environment, the parameters will cause deviation and error.
- This series of products can be customized, special requirements.
- Accessory selection depends on the actual configuration.
- To ensure safety and avoid loss. Power off during installation.

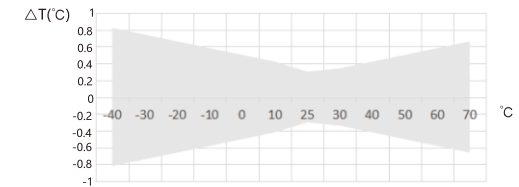
### Model

Product Name	Model	Signal Output	Temperature Range	Probe length
EX TT61	1	A4	1	2
	1=Wall-mounted type 2=Duct type 3=Pipe type 4=Split type 5=Clamp type	V10=0~10VDC (3-wired) A4=4~20mA (2-wired) V5=0~5VDC (3-wired) 0=PT1000,±0.2°C@0°C 1=PT100,±0.2°C@0°C 2=NTC20K,±0.3°C@25°C 3=NTC10K,±0.3°C@25°C	0=None 1=0~50°C 2=-20°C~60°C 8=Other(customized)	0=65mm 1=100mm 2=200mm 3=150mm 8=Other (customized)

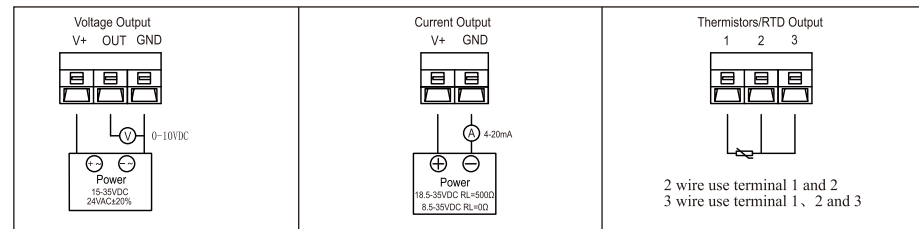
### Parameters

Sensor	High precision thermal resistance, please refer to the selection instruction table (resistance output) / PT1000, level A(analog output type)
Output	Resistance value, please refer to the selection table and thermal resistance indexing table / 4~20mA or 0~10VDC,0~5VDC
Thermal resistance	Please check the selection table and thermal resistance indexing table
Accuracy	Typical 0.2~0.5°C@0/25°C, as the selection table/ ±0.3°C@25°C, as the accuracy graph
Power supply	Voltage type 15~35VDC/24VAC±20% Current type 18.5~35VDC (RL=500Ω) / 8.5~35VDC (RL=0Ω)
Output load	(analog output type): ≤500Ω(current type), ≥2KΩ(0~5V), ≥3KΩ(0~10V)
Housing material	PC housing, stainless steel probe(φ6mm)and sleeving
Work environment	-40~70°C, 0~95%RH (Non-condensing)
IP grade	IP65

### Temperature Accuracy Graph (analog output type)

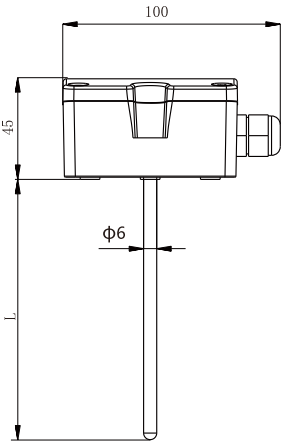
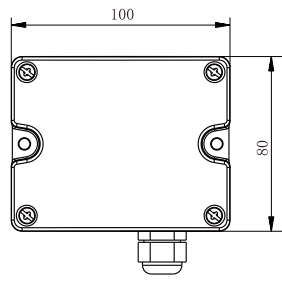


### Wiring Instructions

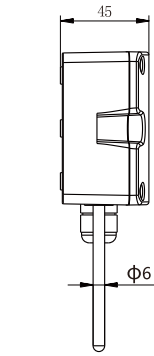
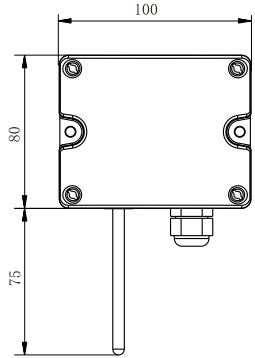


Note:  
 When using 24VAC power supply, it is recommended to use isolated 24VAC power supply.  
 The maximum power of thermal resistance output type is P=100mW@25 °C. If it exceeds the rated power, the thermal resistance will burn.

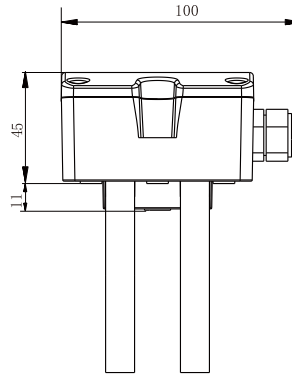
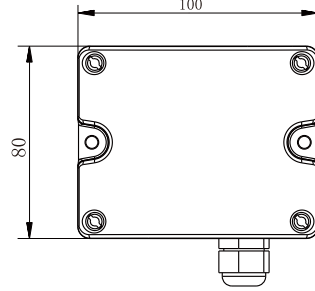
Dimension in:mm



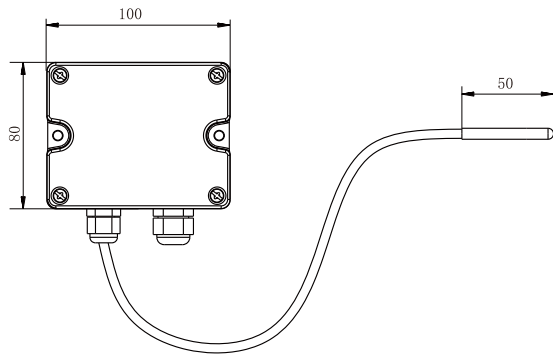
TT61-2/-3 Pipeline type



TT61-1 Wall-mounted type

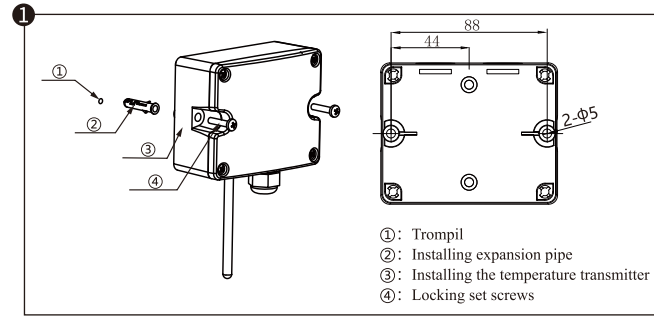


TT61-5 Clamp type



TT61-4 Split type

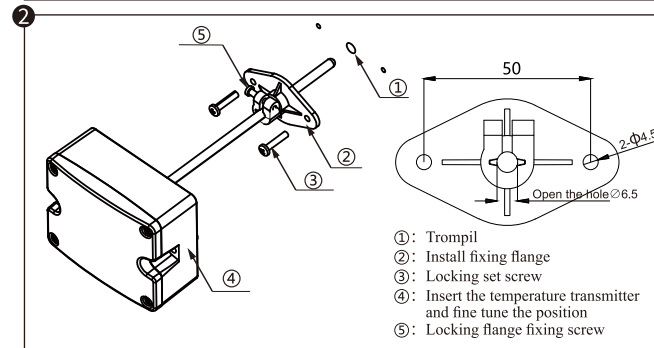
Installation



- ①: Trompil
- ②: Installing expansion pipe
- ③: Installing the temperature transmitter
- ④: Locking set screws

TT61-1/4, when select wall-mounted, the probe should be vertically downward. When applied to outdoors, a proper position is needed. Please make sure the transmitter is away from the factors which may affect the measurement, such as cold, heat source, etc. And it's also necessary to install sun visor or protective cover to protect the transmitter from direct sunlight or rain. Drill two holes in the mounting place according to the hole size of the mounting box (refer to above picture), and tighten the mounting box with two screws.

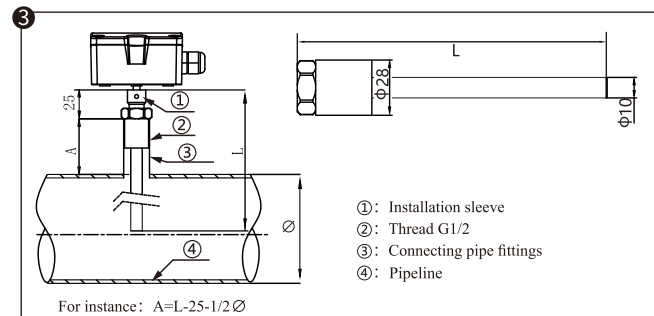
TT61-1/4



- ①: Trompil
- ②: Install fixing flange
- ③: Locking set screw
- ④: Insert the temperature transmitter and fine tune the position
- ⑤: Locking flange fixing screw

TT61-2 is recommended to use flange accessories for installation. The insertion depth is adjustable. Fix the flange on the pipe with four screws. The screws can tighten the probe and TT61-2. Drilling hole size is  $\Phi 7\text{mm}$ , and it must be finally sealed after drilling.

TT61-2

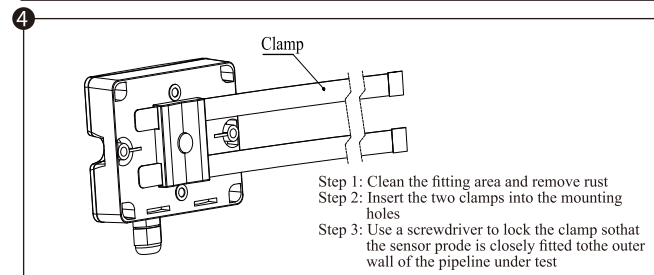


- ①: Installation sleeve
- ②: Thread G1/2
- ③: Connecting pipe fittings
- ④: Pipeline

For instance:  $A=L-25-1/2\phi$

TT61-3 should be installed with installation joint. The connection joint size should be G1/2, and welded to the pipe. Tighten the connection joint to ensure pipe pressure was sealed well. Put in the probe to the pipe bottom, and fasten it with the screws.

TT61-3



- Step 1: Clean the fitting area and remove rust
- Step 2: Insert the two clamps into the mounting holes
- Step 3: Use a screwdriver to lock the clamp so that the sensor probe is closely fitted to the outer wall of the pipeline under test

TT61-5 is designed for circular pipe and cable ties installation. Tighten the cable tie to make the probe is as close as possible to the pipe surface (To achieve the best measurement performance, the connect part must be clean and no rust).

ANW2610W-5

When wiring, please open the cover and install the waterproof connector first. And then connect the power supply and signal wire at the box base through the waterproof connector. Finish the wiring according to the wiring diagram. In order to make the protection level up to IP65. Please make sure the waterproof connector and the box base matched well without leakage (There is a sealing ring). So do the cover and the bottom box (There is also a sealing ring).