

# Temperature Transmitter

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◆ In: -50°C~250°C

◆ Out: 0~5V dc

◆ PWR: DC24V

◆ Thread: M20\*1.5

For Water/Oil/Gas/Liquid

**Hirschmann**

**Temperature Transmitter**

## Product Description



# Temperature Transmitter

**-50°C~0~250°C**

**Platinum Resistance  
PT100 Temperature Transmitter**



1>>. ELTS300 temperature transmitter is composed of a temperature sensor and a signal converter. The signal converter is installed in the cold junction box of the temperature sensor, and directly converts the voltage and resistance signals detected by the temperature sensor into a 4-


20mA current output.

2>>. The internal circuit board converts the temperature signal into standard analog signal,users can directly connect the transmitter with computer interface card,control instrument,intelligent instrument or PLC.

3>>. This temperature transmitter has many good features,small volume,light weight,easy to install,all stainless steel sealing structure,high anti-vibration and anti-impact performance.

4>>. Widely used in petroleum, chemical, metallurgy, power station, light industry and other departments, and is used with regulators, recording instruments, computers, etc. to form various measurement and control systems.

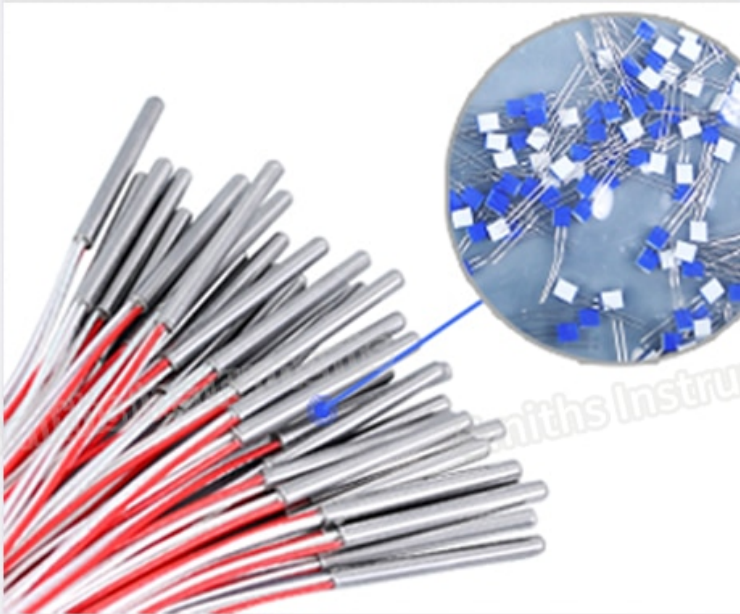
### Product Features



## Product Features

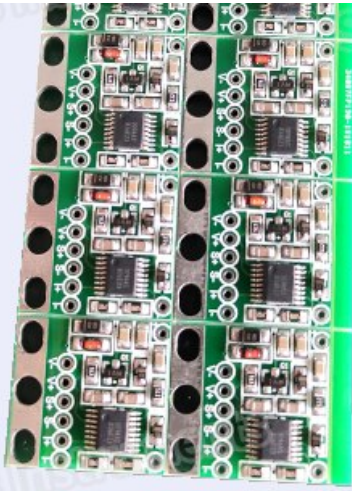
Imported PT100 platinum resistor

High precision, high stability, strong anti-interference ability



## Temperature

## measuring probe rod



High precision digital circuit board, with temperature compensation.

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## Temperature measuring probe rod

Filling magnesium oxide probe rod with good thermal conductivity.

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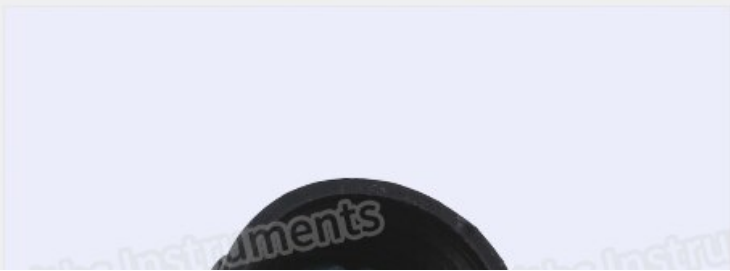


**Stainless steel 304  
seamless shell**

Stainless steel integral weiding  
ensures stalbe performance.



**Hirschmann  
joint design**



Simple wiring, outlet is closed & waterproof.

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**Screw thread, probe diameter & length customized**

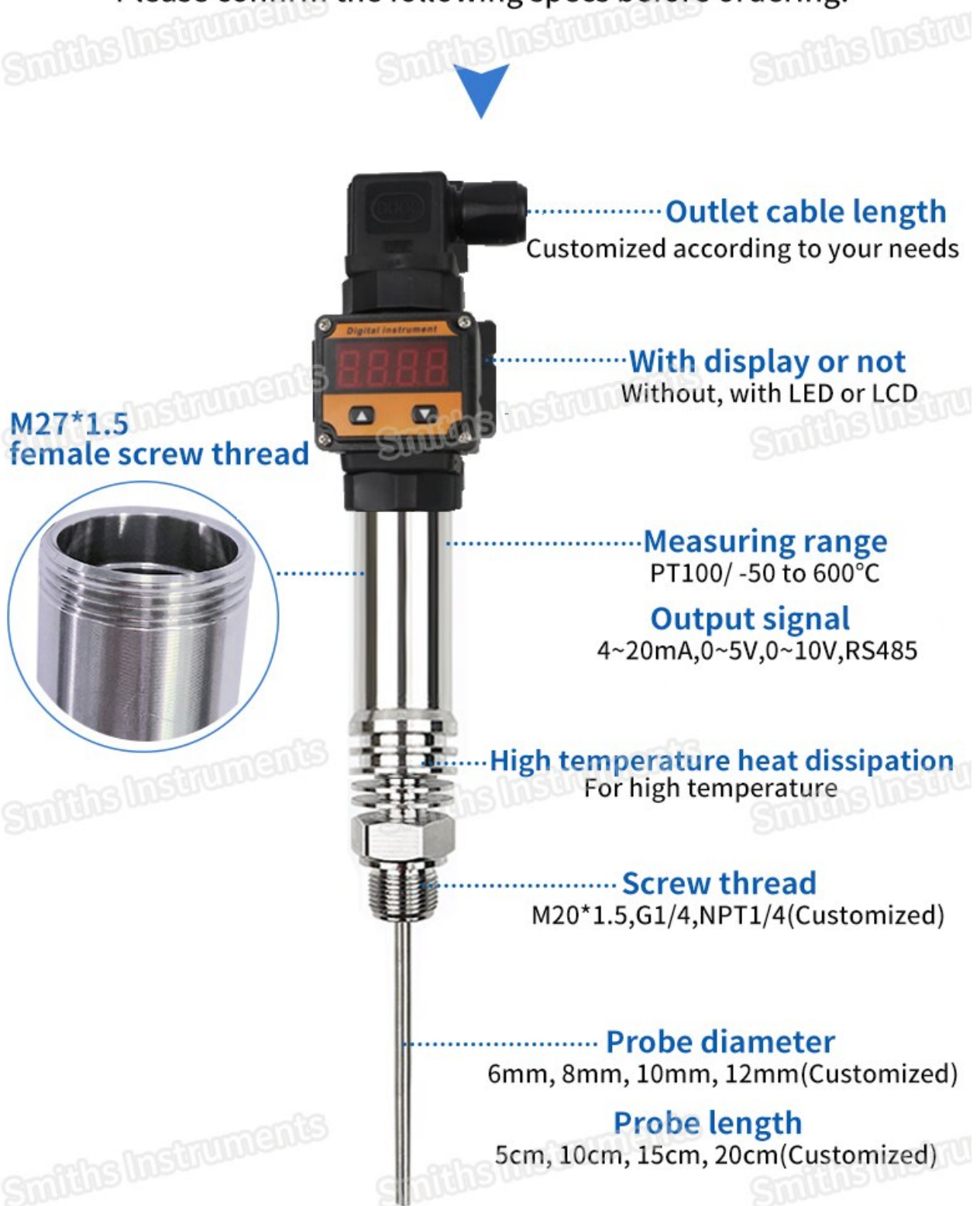
Default thread is M20\*1.5 (we can make G1/4, NPT1/2, etc).  
Default probe dia is 6mm (we can make 8mm, 10mm, 12mm, etc).  
Default probe length is 5cm (we can make 10cm, 20cm, 30cm, etc).

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## Product Selection

# How to choose the right product?

Please confirm the following specs before ordering.



Product Selection



# Product Selection

Model: ELTS300

Pressure range: R: -50°C ~0 ~250°C (any range within it)

Output signal: O1: 4-20mA(default); O2: 0-5V; O3: 0-10V; O4:RS485;

Power supply: P1: 24VDC ; P2: Customized;

Thread size: T1: M20\*1.5(default); T2: G1/2; T3: G1/4;  
T4: NPT1/4; T5: NPT1/2; T6: Customized;

Display: D1: Without display; D2: With display;

Probe diameter:  $\phi$ 1: 6mm(default);  $\phi$ 2: 8mm;  
 $\phi$ 3: 10mm;  $\phi$ 4: 12mm;  $\phi$ 5: NCustomized;

Probe length: L1: 5cm(default); L2: 10cm;  
L3: 15cm; L4: 20cm; L5: NCustomized;

ELTS300 R O1 P1 T1 D1  $\phi$ 1 L1

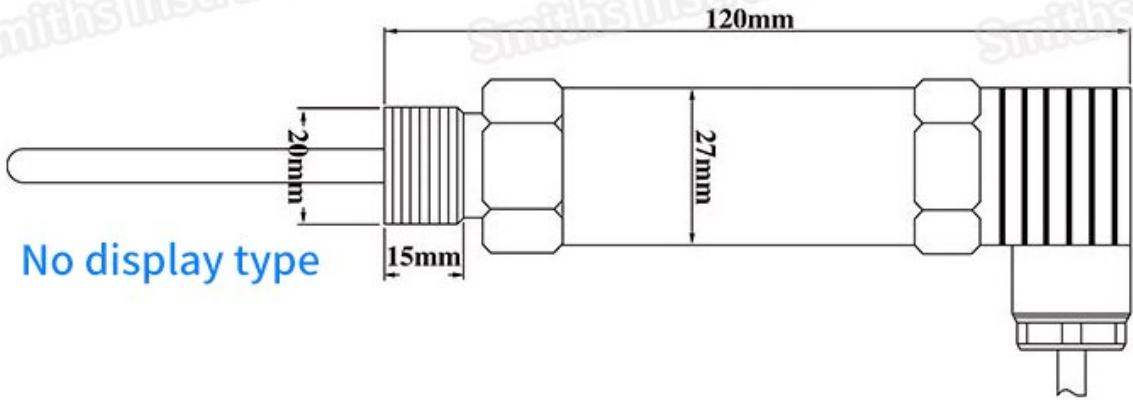
eg: ELTS300-R-O1-P1-T1-D1- $\phi$ 1-L1

## Product Dimension

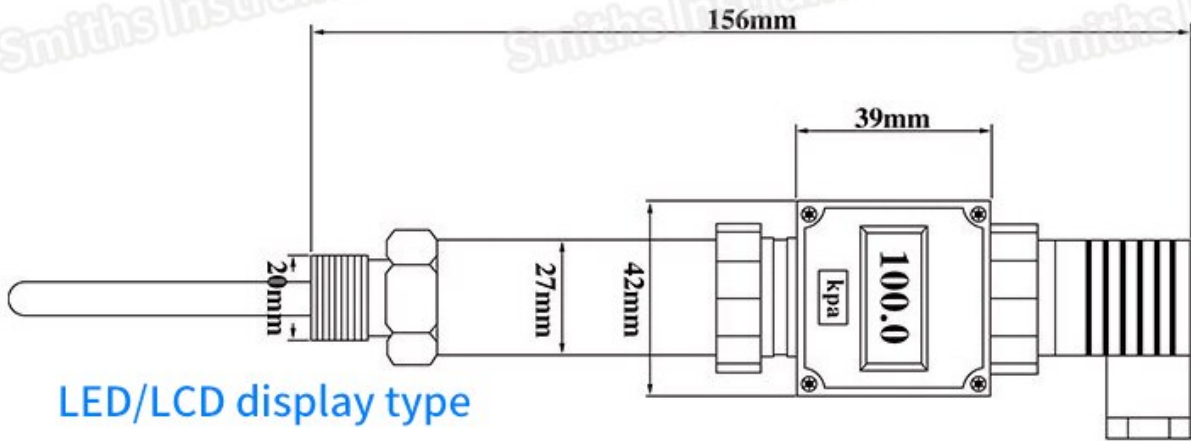




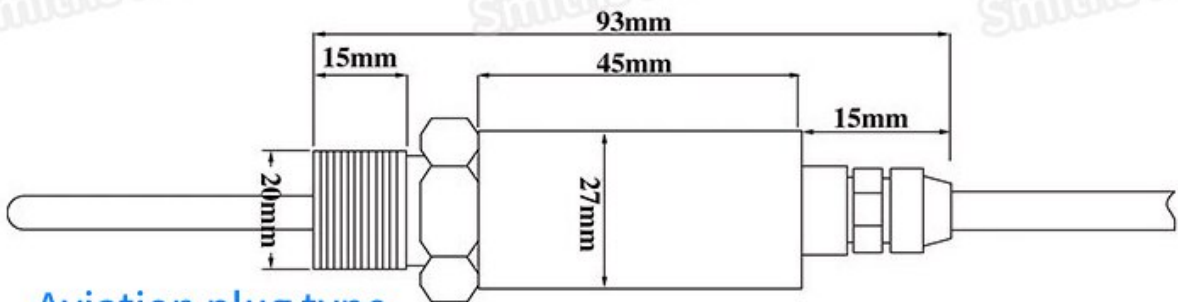
# Product Dimension



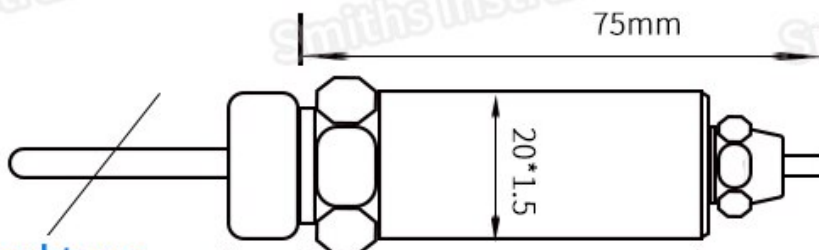
No display type



LED/LCD display type

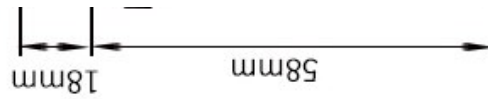


Aviation plug type



Direct lead type

Direct lead type



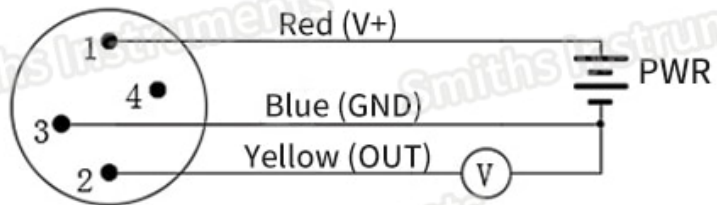
### Product Wiring Diagram

## Wiring Diagram

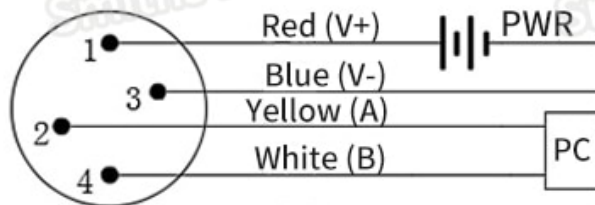
2 wires current output



3 wires voltage output



4 wires RS485 output



### Real Product Pictures





# MORE OPTIONS TO MEET YOUR REQUIREMENTS.

## ELTS300-T1 NO display type



Name	Temperature transmitter
Measuring range	PT100: - 50 to 250°C (Customized)
Output signal	4-20mA, 0-5V, 0-10V, RS485 (Customized)
Power supply	DC10~30V (DC24V)
Accuracy	0.5%FS, 0.2%FS
Thread size	M20*1.5, G1/4, G1/2, G3/4 (Customized)
Probe diameter	6mm, 10mm (Customized)
Probe length	5mm, 10mm, 50mm (Customized)
Material	SS304, SS316 (Customized)
Features	Probe waterproof, Corrosion resistance, High accuracy

## ELTS300-T2 LED display type



Name	Temperature transmitter
Measuring range	PT100: - 50 to 250°C (Customized)
Output signal	4-20mA, 0-5V, 0-10V, RS485 (Customized)
Power supply	DC10~30V (DC24V)
Accuracy	0.5%FS, 0.2%FS
Display	LED
Thread size	M20*1.5, G1/4, G1/2, G3/4 (Customized)
Probe diameter	6mm, 10mm (Customized)
Probe length	5mm, 10mm, 50mm (Customized)
Material	SS304, SS316 (Customized)
Features	Probe waterproof, Corrosion resistance, High accuracy

## ELTS300-T3 Sanitary chuck type



Name	Temperature transmitter
Measuring range	PT100: - 50 to 250°C (Customized)
Output signal	4-20mA, 0-5V, 0-10V, RS485 (Customized)
Power supply	DC10~30V (DC24V)
Accuracy	0.5%FS, 0.2%FS
Display	LCD
Thread size	M20*1.5, G1/4, G1/2, G3/4 (Customized)
Probe diameter	6mm, 10mm (Customized)
Probe length	5mm, 10mm, 50mm (Customized)
Material	SS304, SS316 (Customized)
Features	Probe waterproof, Corrosion resistance, High accuracy

## ELTS300-T4 High temperature type



Name	Temperature transmitter
Measuring range	PT100: -50 ~ 600°C (Customized)
Output signal	4-20mA, 0-5V, 0-10V, RS485 (Customized)
Power supply	DC10~30V (DC24V)
Accuracy	0.5%FS, 0.2%FS
Thread size	M20*1.5, G1/4, G1/2, G3/4 (Customized)
Probe diameter	6mm, 10mm (Customized)
Probe length	5mm, 10mm, 50mm (Customized)
Material	SS304, SS316 (Customized)
Features	Probe waterproof, Corrosion resistance, High accuracy

Smith Automation

## ELTS300-T5 Waterproof type



Name	Temperature transmitter
Measuring range	PT100: - 50 to 250°C (Customized)
Output signal	4-20mA, 0-5V, 0-10V, RS485 (Customized)
Power supply	DC10~30V (DC24V)
Accuracy	0.5%FS, 0.2%FS
Thread size	M20*1.5, G1/4, G1/2, G3/4 (Customized)
Probe diameter	6mm, 10mm (Customized)
Probe length	5mm, 10mm, 50mm (Customized)
Material	SS304, SS316 (Customized)
Features	Waterproof, Corrosion resistance, High accuracy

Smith Automation

## ELTS300-T6 Aviation plug type



Name	Temperature transmitter
Measuring range	PT100: - 50 to 250°C (Customized)
Output signal	4-20mA, 0-5V, 0-10V, RS485 (Customized)
Power supply	DC10~30V (DC24V)
Accuracy	0.5%FS, 0.2%FS
Thread size	M20*1.5, G1/4, G1/2, G3/4 (Customized)
Probe diameter	6mm, 10mm (Customized)
Probe length	5mm, 10mm, 50mm (Customized)
Material	SS304, SS316 (Customized)
Features	Waterproof, Corrosion resistance, High accuracy

Smith Automation

## ELTS300-T7 Explosion proof type



Name	Temperature transmitter
Measuring range	PT100: - 50 to 250°C (Customized)
Output signal	4-20mA, 0-5V, 0-10V, RS485 (Customized)



Output signal	4-20mA, 0-5V, 0-10V, RS485 (Customized)
Power supply	DC10~30V (DC24V)
Accuracy	0.5%FS, 0.2%FS
Thread size	M20*1.5, G1/4, G1/2, G3/4 (Customized)
Probe diameter	6mm, 10mm (Customized)
Probe length	5mm, 10mm, 50mm (Customized)
Material	SS304, SS316 (Customized)
Features	Probe waterproof, Corrosion resistance, High accuracy

## ELTS300-T7H

### Explosion proof high temperature type



Name	Temperature transmitter
Measuring range	PT100: -50 ~ 600°C (Customized)
Output signal	4-20mA, 0-5V, 0-10V, RS485 (Customized)
Power supply	DC10~30V (DC24V)
Accuracy	0.5%FS, 0.2%FS
Thread size	M20*1.5, G1/4, G1/2, G3/4 (Customized)
Probe diameter	6mm, 10mm (Customized)
Probe length	5mm, 10mm, 50mm (Customized)
Material	SS304, SS316 (Customized)
Features	Probe waterproof, Corrosion resistance, High accuracy





# Workshop Production

