



# **BANNING**

## **TEMPERATURE TRANSMITTER**

### **T202**



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## DESCRIPTION

T202 integrated temperature transmitter uses the resistance of platinum to change with temperature, and has a certain function relationship to measure the temperature of the measured medium. The product is composed of a temperature sensor, a compensation circuit and a conversion circuit. It has the advantages of stable performance, high sensitivity and strong reliability.

## CHARACTERISTICS

- Equipped with a heat dissipation rod, which has excellent heat dissipation performance
- High precision, high stability, strong anti-interference ability
- Multiple connection methods and multiple output signals
- Explosion-proof mark: ExiaIICT6 (intrinsically safe type)
- Easy installation and long-term stable operation
- Fast response
- Can be customized according to customer requirements

## PERFORMANCE

Parameter	T202
Measuring range	-50°C ~ 250°C
Power supply	24V
output signal	4 ~ 20mA
Accuracy	0.5 grade
Sensitive element	Pt100
Dielectric strength	100MΩ /250VDC
Long-term stability	≤ 0.2%FS/year
Thermal response time	≤ 30s
Insertion diameter	Φ 8mm (special requirements can be negotiated)
Explosion-proof grade	Intrinsically safe explosion-proof ExiaIICT6
Shell protection	IP65
Working environment	(1) Ambient temperature: -40 °C ~ 85 °C (2) Relative humidity: 0 to 95% RH (3) Mechanical vibration: f≤ 55Hz, amplitude <0.15mm (4) Power consumption: <0.5W

## APPLICATION

- Equipment matching, used to measure the temperature of liquid, steam or solid surface in the range of -50 ~ 250°C in various industrial processes, and used with display instruments, recording instruments and various control systems.
- The product adopts a fully welded structure and a high-strength shell. It is widely used in petroleum machinery, chemical machinery, pumps and compressors, electric power, boilers, natural gas and other automated temperature measurement and control systems.

# DIMENSIONS

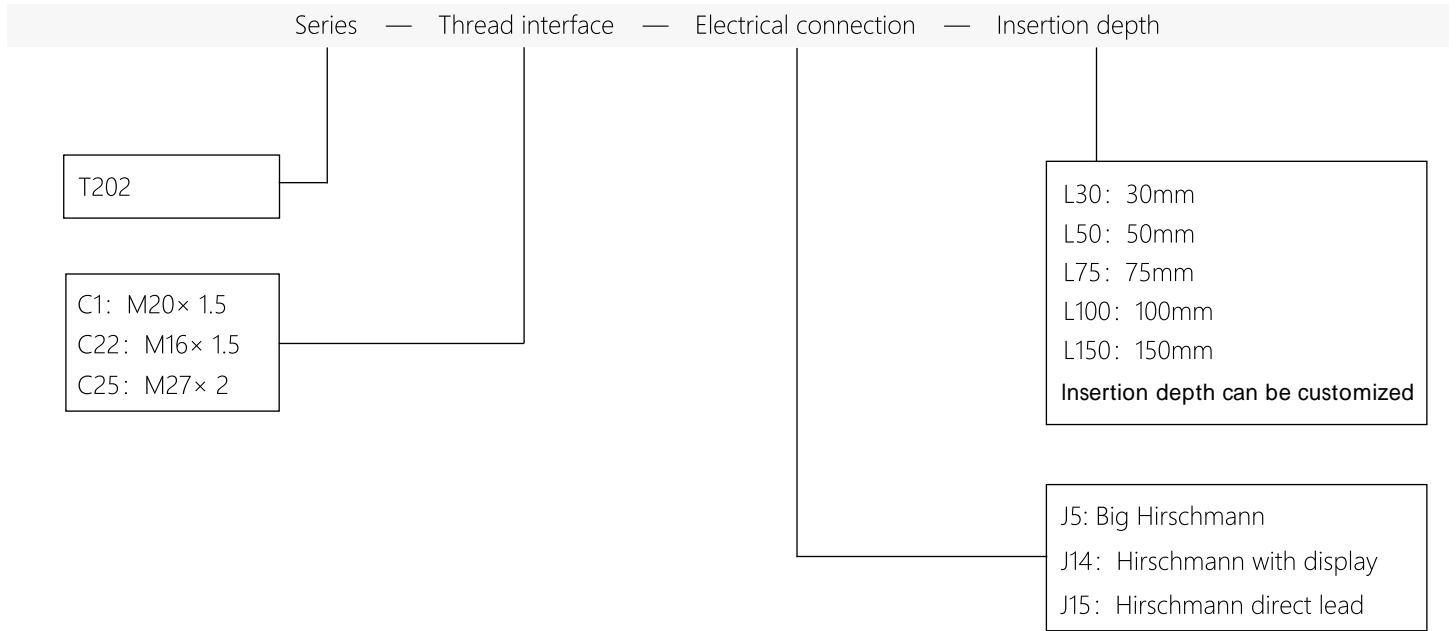
Type	J5: Big Hirschmann	J14: Hirschmann with display	J15: Hirschmann direct lead
Outline Unit: mm			

**NOTE:** L is the insertion depth (without thread); La is the heat dissipation length; the diameter of the temperature envelope is  $\varnothing 8$  by default, and special requirements can be customized;

## Form parameter correspondence table

Thread interface	Thread length (mm)	Hexagon size
M20× 1.5	15	SW27
M16× 1.5	15	SW24
M27× 2	20	SW32

# NOMENCLATURE



**FOR EXAMPLE:** T202-C1-J5-L50

The series is T202, the threaded interface is M20 × 1.5, the electrical connection is Big Hirschmann, and the insertion depth is 50mm.

## NOTE

- The insertion depth is excluding the thread length.
- The band display is divided into two types: digital tube display and liquid crystal display. Please specify in the order.
- If there are special requirements for product appearance and performance parameters, our company can provide customization.

# DISCLAIMER

## ⚠ Warning

### LIFE OR PROPERTY RISK

- Please ensure that this product has been designed as part of whole system and already considered related risks, make sure the product has the correct ratings and is designed based on the entire system. It must not be used when applications related to serious life or property damage risks.

**Failure to follow this instruction can result in death or serious injury.**

## ⚠ Warning

### PERSONAL INJURY

- DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

**Failure to follow this instruction can result in death or serious injury.**

## ⚠ Warning

### MISUSE OF DOCUMENTATION

- The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- Complete installation, operation, and maintenance information is provided in the instructions supplied with each product.

**Failure to follow this instruction can result in death or serious injury.**

## Warranty/Remedy

Banning warrants goods of its manufacture as being free of defective materials and faulty workmanship during the applicable warranty period. Banning's standard product warranty applies unless agreed to otherwise by Banning in writing; please refer to your order acknowledgment or consult your local sales office for specific warranty details. If warranted goods are returned to Banning during the period of coverage, Banning will repair or replace, at its option, without charge those items that Banning, in its sole discretion, finds defective. **The foregoing is buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Banning be liable for consequential special, or indirect damages.**

While Banning may provide application assistance personally, through our literature and the Banning web site, it is buyer's sole responsibility to determine the suitability of the product in the application.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this writing. However, Banning assumes no responsibility for its use.

## SALES & SERVICE

Banning serves its clients through a worldwide network of sales offices, agents and distributors. For application assistance specifications, prices or names with the nearest authorized dealer, please contact your sales specialist or contact us directly:

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