

# Temperature transmitter

Model: WR-203 (With 4-20mA output)



## Description

WR-203 Series temperature transmitter is composed of three parts as temperature sensor, compensation circuit and switching circuit. It has the advantages of stable performance, high sensitivity, and strong reliability. It can be widely used in automation temperature control system, such as metallurgy, machinery, petroleum, electricity, chemical industry, light industry, textile, building materials and so on.

## Work principle

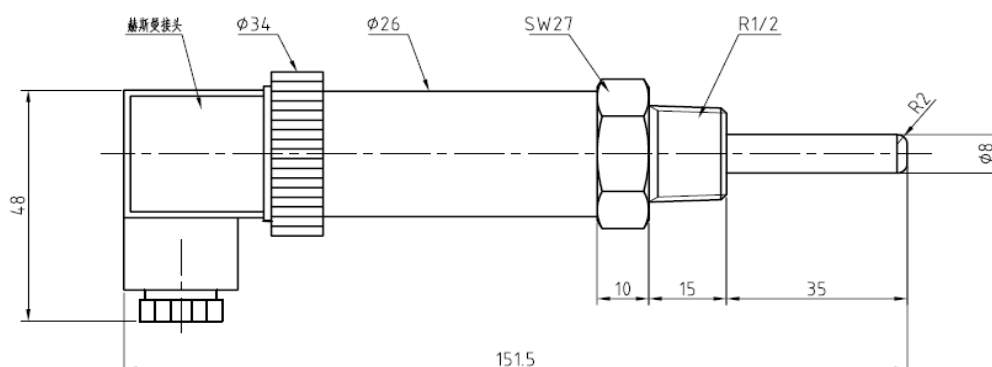
The thermocouple (resistance) measure the changes of thermal power (resistance) when working, which will produce unbalance signal through the temperature transducer's bridge, and the signal will be amplified and converted into 4-20mA DC signal to the instrument, then the instrument will display the corresponding temperature value.



## Typical application

This series products is used to measure the temperature of the surface of liquid, steam, gas and solid under -50 to +600°C. It is suitable for temperature measurement in water supply, hydraulic pressure, cooling, heating system industry and automatic control.

## Dimensions



## Specification

Temperature range: -50 to +600°C  
Output: 4-20mA (2-wire) ,0-10V ( 3-wires)  
Power supply: 10~30VDC  
Error: 0.1%FS, 0.3%FS, 0.5%FS  
Media compatibility: 316L stainless steel  
Process connection: Thread  
Protection tube: Stainless steel, 5mm, 6mm and 8mm dia.  
Insert length (L): 30mm<L<500mm  
Sensing element: PT100 temperature sensor  
Electrical connector: DIN43650 (IP65)

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