

Product overview

The TBT bimetal thermometer is a field measuring instrument for measuring the medium/low temperature and composed of bimetallic strip which is wound into a circular bending. If one end is subject to thermal expansion, the pointer will be driven to rotate, the operating instrument will display the temperature value corresponding to the thermal electromotive force, and the temperature of liquid, steam and gas medium within the scope of $-80^{\circ}\text{C}\sim+500^{\circ}\text{C}$ in various production processes can be directly measured.



Product features

- Intuitive and convenient on-site temperature display;
- Safe, reliable and long service life;
- It has many structural forms and can meet different requirements.

Technical indicators

- Product implementation standard;
JB/T8803-1998
GB38369-83
- Nominal diameter of dial: 60, 100 and 150;
- Accuracy grade: (1.0) and 1.5;
- Thermal response time: $\leq 40\text{S}$;
- Protection grade: IP55;
- The angle adjustment error should not exceed 1.0% of its measuring range;
- The thermometer return difference should not be more than the absolute value of the limit of intrinsic error;
- The limit range of repeatability of thermometer should not exceed 1/2 of the absolute value of the limit of intrinsic error.

• Temperature measurement range

Measuring range ($^{\circ}\text{C}$)	Subject range	
	Industrial and commercial	Lab, small
$-80\sim+40$	V	V
$-40\sim+80$	V	V
$0\sim50$	V	V
$0\sim100$	V	V
$0\sim150$	V	V

Measuring range ($^{\circ}\text{C}$)	Subject range	
	Industrial and commercial	Lab, small
$0\sim200$	V	V
$0\sim300$	V	V
$0\sim400$	V	-
$0\sim500$	V	-
-	-	-

Product model selection

TBT	Bimetal thermometer					
	Form of protection B Ordinary type U Protection type F Corrosion prevention					
		Installation way 0 No fixed device 1 Movable external thread 2 Movable internal thread 3 Fixing thread 4 Fixed flange 5 Cutting sleeve thread 6 Cutting sleeve flange				
		Structure form C Axial direction (straight form) A Radial direction (angle form) Y 135° direction (obtuse angle type) E Hot sleeve angle type R Hot sleeve straight form H Hot sleeve universal type W Universal (adjustable angle type)				
		Nominal diameter of the meter shell 60 Φ60 100 Φ100 150 Φ150				
		Temperature range *** (100 indicates the meter range: $0\sim100^{\circ}\text{C}$)				
		Electric contact X With electric contact M Without electric contact				
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