

As a temperature measurement and control sensor, **dual thermocouple** is matched with a display instrument to directly measure and control the temperature of gas, liquid and vapor in the production process. It is not only used for temperature measurement of pipelines in power plants, but also for temperature measurement in other industrial sectors. dual thermocouple is to form a set of thermocouples with two thermocouples and install them in the outer protection tube to measure the temperature at the same point. There are dual outputs, and two thermostats can be connected. There are one or two resistor cores in a protection tube. Generally, two key temperature measuring points, easily damaged temperature measuring points, and temperature measuring points for interlocking control are used. This can not only ensure the accuracy of temperature measurement, but also prevent the trouble of re-disassembly after damage.

Brief introduction of **dual thermocouple**:

1. Two measuring points can be taken at the same position.
2. One spare, convenient for maintenance.
3. The two can be compared to judge whether the temperature measurement is correct. In fact, the special feature of double-armored thermocouples is that the multi-point thermometer is placed in a casing. When measuring the temperature of multiple points, you need to select multiple thermocouples or thermocouples. The insertion length can be based on the measured multi-point temperature. Location to choose.

Insulation resistance for normal temperature

In terms of the sheath thermocouple, the environment temperature is  $20 + 15^{\circ}\text{C}$ , the relative humidity is not more than 80%, the test voltage is  $500 + 50\text{V(DC)}$ , the insulation resistance between electrode and outer sleeve  $\geq 1000\text{M}\Omega\cdot\text{m}$ . That is to say, the insulation resistance for sample of 1m is  $1000\text{M}\Omega$ ;

the insulation resistance for sample of 10m is  $100\text{M}\Omega$ .

Diameter and material for the **dual thermocouple** wire

偶丝形式 Graduation		单支式 Graduation	双支式 Graduation
套管直径 Graduation		$\Phi 2, \Phi 3, \Phi 4, \Phi 5, \Phi 6, \Phi 8$	$\Phi 3, \Phi 4, \Phi 5, \Phi 6, \Phi 8$
分度号 Graduation	E、J、T	1Cr18Ni9Ti	1Cr18Ni9Ti
	K、N	1Cr18Ni9Ti GH3030	1Cr18Ni9Ti GH3030
	S、R、B	GH3030	GH3039

**dual thermocouple** Structure form in the measuring terminal

