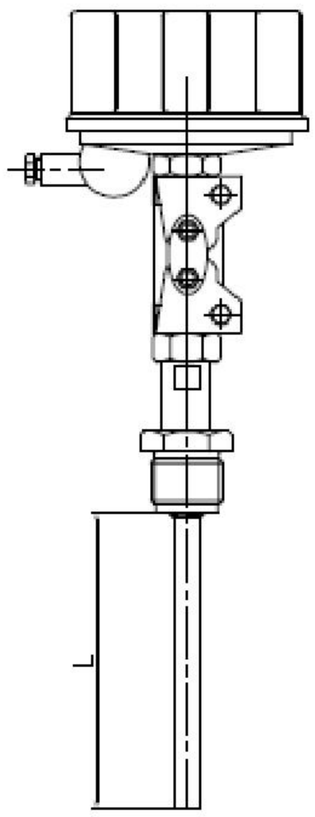
天康集团

防爆双金属温度计

Explosion-proof Bimetal Thermometer



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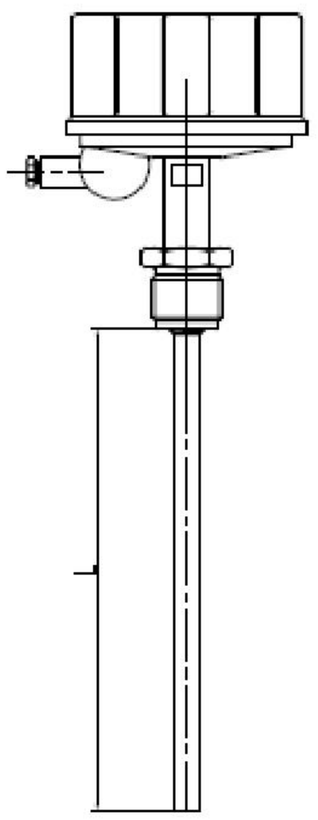

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产品应用

Product Application

电接点双金属温度计应用于生产现场对温度需自动控制和报警。直接测量各种生产过程中的-80℃~+500℃范围内体、蒸汽和气体介质温度。

Bimetal thermometer is a kind of on-site detection instrument for measuring low and medium temperatures, which can directly measure the temperature of liquid, steam and gas media in the range of -80℃~+500℃ in various production processes.

产品原理

Product Principles

电接点双金属温度计是利用温度变化时带动触点变化当其与上下限触点接触或断开的同时，使电路中的继电器动作，从而自动控制及报警。

Electric contact bimetal thermometer is the use of temperature change to drive the contact change when it is in contact with the upper and lower limits of contact or disconnect at the same time, so that the relay in the circuit action, so as to automatically control and alarm.

产品参数

Product Parameters

- 现场显示温度，直观方便；
- 具有自动切断电源和报警功能；
- 安全可靠，使用寿命长；
- 多种结构形式，可满足不同要求。

- On-site display of temperature, intuitive and convenient.
- With automatic power cut off and alarm function.
- Safe and reliable, long service life.
- A variety of structural forms, can meet different requirements.

产品参数
Product Parameters

1、产品执行标准：JB/T8803、GB/T3836。
2、标度盘公称直径：
60mm，100mm，150mm。
3、精度等级：1.0级，1.5级。
4、热响应时间：≤40s。
5、防护等级：IP55，IP65，IP66。
6、防爆等级：Ex db IIC T4...T6Gb。
7、电气参数

1. Executive Standard of the Product: JB/T8803, GB/T3836
2. Nominal diameter of standard disk: 60, 100, 150.
3. Accuracy level: Level 1.0, Level 1.5;
4. Thermal response time: ≤40s;
5. Protection level: IP55, IP65, Ip66.
6. Explosion-proof grade: Ex db IIC T4.... T6 Bb.
7. Electrical parameters:

额定功率 VA Rated power	最高工作电压 V Maximum working voltage	最大允许电流 Maximum allowable current
10	220	0.7A
	24	

8、绝缘电阻

Insulation resistance

额定电压 V Rated voltage	直流试验电压 DC test voltage	绝缘电阻 insulation resistance
7	24d.c	100
20	220a.c	500

9、正常工作大气条件：温度-25~+55℃相对湿度≤85%。
10、设定点误差：设定点误差应不超过基本误差限的1.5倍切换差；切换差应不超过基本误差限的1.5倍。
11、切换重复性：切换重复性极限范围不大于基本误差限绝对值1/2。

9. Normal atmospheric operating conditions: temperature -25℃~+55℃, relative humidity ≤85%.
10. Set-point error: the set-point error shall not exceed 1.5 times the switching difference of the basic error limit; the switching difference shall not exceed 1.5 times the basic error limit.
11. Switching repeatability: switching repeatability limit range is not greater than the absolute value of the basic error limit 1/2.