



徽宁集团
HUINING GROUP

双金属温度计使用说明书

Bimetallic thermometer instruction manual



安徽徽宁电器仪表集团有限公司

ANHUI HUINING ELECTRIC METER & APPLIANCE GROUP CO.,LTD

一、用途 Application

双金属温度计可直接测量各类蒸汽、气体和液体介质的温度。测量温度范围为-80~600℃,具有读数直观方便,不易损坏,结构形式可满足不同场合需要的特点,尤其是彻底拒绝汞害,本公司还生产电接点双金属温度计、防爆式双金属温度计和热电偶(阻)一体化双金属温度计,即可用于现场直观读数,又能远距离传输信号进行监控。

Bimetallic thermometer can be directly used to measure the temperature of varies types of steam,gas and liquid medium.The measuring temperature range from -80~600℃,easy for using and reading,heavy building structure meets the needs of different occasions,particularily without any mercury which leads no harm to the environment.Our company also produces electric contact bimetallic thermometer,flameproof bimetallic thermometer,either can be used on-site monitoring or for long-distance signal transmission.

本公司产品选材优良,质量控制严格,检测手段完备。产品执行 JB/T8803-2015 行业标准,防爆式的执行 GB/T3836.1-2021 GB/T3836.2-2021 国家标准。

Quality assurance gained by strict material selection and quality control,and also intensive detection methods.Products comply with JB/T8803-2015,the Explosion-proof types comply with GB/T3836.1-2021 GB/T3836.2-2021.

二、主要规格 Main Specification

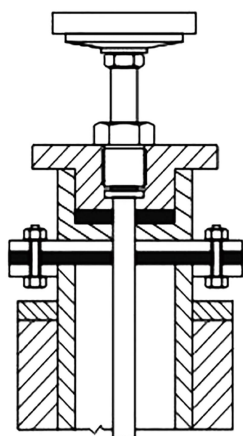
公称直径（mm） Diameter(mm)	测量范围（℃） Measuring range（℃）	准确度等级 Accuracy class	固定装置和保护 管规格 Specifcantion of fixing device and protecting tube
	-80~40℃	1.0 级及以下 Class1.0 and Below class1.0	任定 Optional
	-40~80℃	1.0、1.5 级及 以下 Class1.5 and Below class1.5 Class1.0 and Below class1.0	
	0~50℃		
	0~100℃		
	0~150℃		
	0~200℃		
	0~300℃		
	0~400℃		
	0~600℃	1.5 级及以下 Class1.5 and Below class1.5	

注：特殊规格可定制。

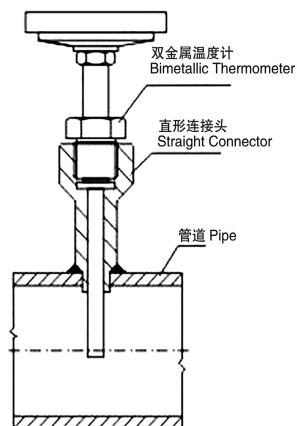
Note:it can be ordered according to special requirement.

三、安装形式 General installation

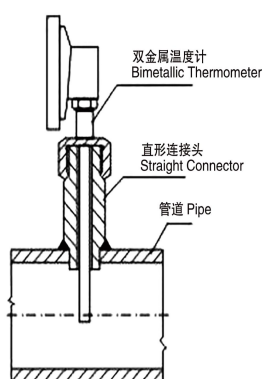
○ 法兰安装方法 Flange



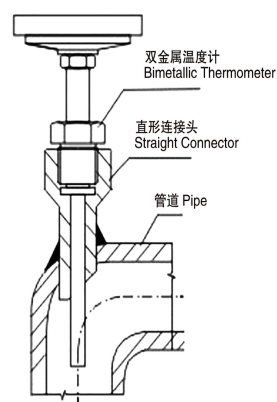
○ 垂直管道安装方法 Upright Pipe



○ 垂直管道安装方法 Upright Pipe



○ 弯曲管道安装方法 Bending Pipe



双金属温度计 Bimetallic thermometer

管道 Pipe

直形连接头 Vertical connector

法兰 Flange

四、使用 Usage

1、在使用搬运时应避免跌落和碰撞，严禁金属保护管变形弯曲。

Prevented from collison and falling under transportation and application,deformation and bending of the metal protection tube sttictly prohibited.

2、双金属温度计为可动螺纹时，先把表头方位置于可观察的方向，再旋紧可动螺纹固定。

Bimetallic thermometer is designed with movable thread,first put the thermometer head in the direction that easily to observe,then fasten movable screw.

3、一体化双金属温度计首先将接线盒打开，将三芯屏蔽线从接线盒电气接口引入，分别接到接线板的各接线端子，需要注意：热电阻的同名端和异端可依据屏蔽线各引线的绝缘层颜色正确连接。

Open the junction box,pull the three-wire shieled conductor through cable entry and then connect each conductor to the terminal.Note:the terminal of thermocouple couple could be connected by the colour of each conductor.

4、双金属温度计垂直安装使用，金属保护管长度为 150mm 及以上时，侵入测量介质的长度应大于 100mm，金属保护管长度在在 150mm 以下时，应全侵入测量介质。

When metal protection tube longer than 150mm,the length of the thermometer that merged into the medium should more than 100mm,otherwise,the thermometer should more than 100mm,the thermometer should eb merged completely.

5、双金属温度计正常工作环境室内为-25~55℃. 室外为-40~85℃。

The normal operating environment for the bimetallic thermometer is -25 to 55℃ indoors and -40 to 85℃ outdoors.

6、双金属温度计应定期进行检定和维护，一般不超过一年的周期，如发现故障应及时检修。

User should conduct regular testing and maintence every year,faults should be repaired timely.

7、储存条件：环境温度 5~40℃，相对湿度不大于 85%的通风室内，且不含有腐蚀性有害杂质。

Stored indoor without corrosive gas at ambient temperature of 5~40 and humidity not more than 85%, keep ventilation.



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