

High Superior Surface Probes

高性能温度传感器 - Moving Surface 移动表面用 -

Contact support type 接触辅助型

SX series

NEW

As the head part can be tilted, the temperature sensing part follows and closely contacts the object to be measured, making temperature measurement easier.

By restricting the movement of one side of the contact plate, it reduces the deformation of the contact plate due to unexpected small deposits or distortion on the surface of the object to be measured.

Suitable for measurement of high temperature metal surface during movement such as during rolling process.

头部可摆动接触辅助功能可以使感温部与被测物密切接触，可更简单的测量温度。感温片一侧固定在头部的轴上，减少了感温片由于意外的小沉积物或被测物表面不规则而导致的变形。适合钢板热压等移动过程中的高温金属表面的温度测量。



Contact support function 接触辅助功能

Camera shake when contacting a moving surface will be reduced.

减少接触移动中被测物时的姿势误差。



Type K Model **SX-671K-01-1-TPC1-ANP**
Type E Model **SX-671E-01-1-TPC1-ANP**

| | | |
|-----------------|---------------------------------------|--------------------|
| Temp.range 温度范围 | Tolerance 精度 | Response time 响应速度 |
| -50~400°C | ±2.5°C (at 100°C surface/100°C 表面) | 3s |

SX series -Moving Surface-[Representative example] SX 系列 - 移动表面用 - [典型产品]



Type K Model **SX-581K-01-1-TPC1-ANP**
Type E Model **SX-581E-01-1-TPC1-ANP**

| | | |
|-----------------|---------------------------------------|--------------------|
| Temp.range 温度范围 | Tolerance 精度 | Response time 响应速度 |
| -50~600°C | ±2.5°C (at 100°C surface/100°C 表面) | 3s |



Type K Model **SX-593K-01-1-TPC1-ANP**
Type E Model **SX-593E-01-1-TPC1-ANP**

| | | |
|-----------------|---------------------------------------|--------------------|
| Temp.range 温度范围 | Tolerance 精度 | Response time 响应速度 |
| -50~800°C | ±2.5°C (at 100°C surface/100°C 表面) | 3s |



Type K Model **SX-595K-01-1-TPC1-ANP**
Type E Model **SX-595E-01-1-TPC1-ANP**

| | | |
|-----------------|---------------------------------------|--------------------|
| Temp.range 温度范围 | Tolerance 精度 | Response time 响应速度 |
| -50~800°C | ±2.5°C (at 100°C surface/100°C 表面) | 3s |



安立計器株式会社
ANRITSU METER CO.,LTD.

SX series [Customization] SX 系列 [选型]

Specific components may be combined to customize products for the needs of a customer's specific application. 可根据多种多样的用途进行选型。可根据客户的用途自由搭配。



SX-671K-01-1-TPC1-ANP
1 2 3 4 5 6 7 8

Specifications 规格

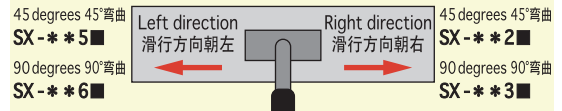
| | | | |
|---|--|-----------------------|--|
| Model number 型号 ^{※1} | SX-58 * ■ | SX-59 * ■ | SX-67 * ■ |
| Thermocouple type 热电偶型号 | Type K or E K型或E型 | | |
| Temp. range 温度范围 ^{※2} | -50 ~ 600°C | -50 ~ 800°C | -50 ~ 400°C |
| Tolerance 精度 ^{※3} | 0°C | ±2.5°C | ±2.5°C |
| | 100°C | ±2.5°C | ±2.5°C |
| | 200°C | ±2.5°C | ±2.5°C |
| | 300°C | ±2.5°C | ±2.5°C |
| | 400°C | ±3.0°C | ±3.0°C |
| | 500°C | ±3.8°C | ±3.8°C |
| | 600°C | ±9.0°C | ±9.0°C |
| | 700°C | — | ±10.5°C |
| | 800°C | — | ±16.0°C |
| Tolerance calculation method 精度的计算方法 t: Temperature(°C) t: 温度(°C) | ① 0°C ≤ t < 333°C : ±2.5°C ② 333°C ≤ t ≤ 500°C : ±(0.0075 × t)°C ③ 500°C < t ≤ 700°C : ±(0.015 × t)°C ④ 700°C < t ≤ 800°C : ±(0.02 × t)°C | | |
| Calibration points of test report (Stationary surface) 成绩单校正温度点(静止时) | 100, 300, 500°C | | 100, 200, 300°C |
| Response time 响应速度 ^{※4} | 0.4~0.5s(63.2%), 1.0~1.2s(90%), 3s(99%) | | |
| Durability 耐久性 ^{※5} | More than 1000 hours continuously at 600°C 1000 小时以上(600°C) | | More than 2000 hours continuously at 300°C 2000 小时以上(300°C) |
| Movable range of the head 头部摆动角度 | ±4° | | |
| Guard material 头部材质 | Special mica 云母材质 | Stainless steel 不锈钢材质 | Heat resistance wheel 耐热滚轮型 |
| Contact plate material 感温片材质 | Inconel Thickness t:100μm 铬镍铁合金 厚:100μm | | |
| Body material 头部材质 | Stainless(SUS303) 不锈钢(SUS303) | | |
| Pipe material 钢管材质 | Stainless(SUS316) 不锈钢(SUS316) | | |
| Grip material 握柄材质 | Polyacetal 聚醚树脂 | | |
| Repair 修理 | Repairable 可修理 | | |

- ※1 The asterisk (*) is replaced by the number of the model name you selected. The model number after thermocouple type is omitted. 型号的*输入选择型号的数字。并省略了热电偶种类以后的型号。
- ※2 The operating temperature limit is determined by the allowable temperature limit of the sensor head contacts the measurement target. Note that the operating temperature limit is not the same as the allowable temperature limits of the grip, cable, and plug. 使用温度范围是指传感器的感温片或者头部所能接触的温度范围, 请注意。
- ※3 Tolerance is available at 0°C or above within the operating temperature on a stationary flat and smooth metal surface. For tolerance at temperature not listed in the above table, please refer to calculation method of tolerance. 为测量0°C以上的静止光滑金属表面温度的精度。
- ※4 The response time is the time required to detect the true value on a flat and smooth metal surface. 响应速度为, 测量光滑的金属表面温度时的响应时间。
- ※5 Time period in which measurement was achieved within the accuracy range, on a flat and smooth metal surface moving at a rate of 200 m/min. 耐久性为用机械法测量移动速度为200 m/分的光滑金属表面, 且保证测量结果在允许误差范围内时能使用的时间。

How to order 型号快速查找

| | | |
|---|----------------------------|--|
| ① Head form 头部形状 ② Guard material 前端头部材质 | 58 | Fixed, Guard, middle temp.type -50 ~ 600°C Special mica guard 单向滑行·无滚轮·中温型 -50 ~ 600°C 云母材质头部 |
| | 59 | Fixed, Guard, high temp.type -50 ~ 800°C Stainless steel guard 单向滑行·无滚轮·高温型 -50 ~ 800°C 不锈钢材质头部 |
| | 67 | Fixed, Wheel type -50 ~ 400°C 单向滑行·滚轮型 -50 ~ 400°C |
| ③ Pipe angle 钢管形状 | 1 | Straight ^{※7} 直管 ^{※7} |
| | 2 | 45 degrees, Right direction ^{※7} 45° 滑行方向 →朝右 ^{※7} |
| | 3 | 90 degrees, Right direction ^{※7} 90° 滑行方向 →朝右 ^{※7} |
| | 5 | 45 degrees, Left direction ^{※7} 45° 滑行方向 ←朝左 ^{※7} |
| | 6 | 90 degrees, Left direction ^{※7} 90° 滑行方向 ←朝左 ^{※7} |
| | ④ Thermocouple type 热电偶的种类 | K |
| ⑤ Pipe length 钢管长度 | 01 | 100mm |
| | 02 | 200mm |
| | ... | ... |
| | 20 | 2000mm |
| ⑥ Grip type 有无握柄 | 1 | Standard Grip 有握柄 |
| ⑦ Cable type 导线种类 ⑧ Cable length 导线长度 | TPC | Coiled cable 卷线 |
| | 1 | TPC is "1" only, extension range:0.3~1.5m TPC长度只能指定1m, 伸缩幅度:0.3~1.5m |
| ⑧ Plug 插头形状 | ANP | Miniature plug mini 插头 |
| | ASP | Anritsu standard plug 标准插头 |
| | W | Without plug 裸线 |

※7 Please select according to the moving direction. 请根据被测物体的移动方向进行选择。



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