

# Model **ST** series

## Flat Leaf Probes

Model ST series probes are multi-purpose temperature sensors featuring a flexible tape shape.

They can be glued to the surfaces of measurement targets for use in a range of applications. Specific components may be combined to customize products for the needs of a customer's specific application.

### ST模式系列

ST模式系列产品是具有柔软性的胶带状多用温度感应器。可以粘帖到测试对象的表面，还可以用于其他多种测试方法。通过组合各个规格的组件，可以按照客户的用途进行个性选配。

モデルSTシリーズは、柔軟性のあるテープ形状をした多目的温度センサです。

測定面に貼り付けるなど、様々な用途にご利用いただけます。各パーツの仕様を組み合わせる事により、お客様の用途に合わせてカスタマイズする事が出来ます。

## Typical probes of ST series

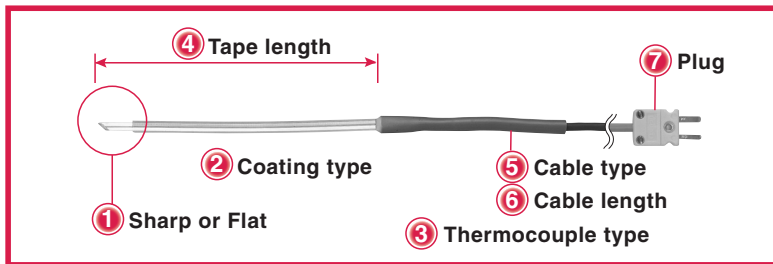
**Type K Model ST-11K-010-TS1-ANP**  
**Type E Model ST-11E-010-TS1-ANP**

Temp. range	Tolerance	Response time	Durability
-50~210°C	±2.5°C (at 100°C)	2.0 s	S

**Type K Model ST-11K-010-0-ANP**  
**Type E Model ST-11E-010-0-ANP**

Temp. range	Tolerance	Response time	Durability
-50~210°C	±2.5°C (at 100°C)	2.0 s	S

## How to order of ST series

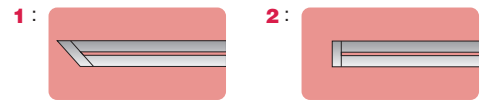


### ST-11K-008-TS1-ANP

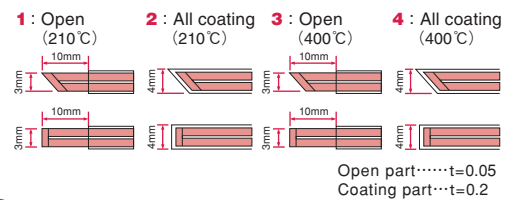


<b>① Sharp or Flat</b>	<b>1</b> : Sharp <b>2</b> : Flat
<b>② Coating type</b> (Max. temp.)	<b>1</b> : Open (Teflon coating) <b>2</b> : All coating (Teflon coating) <b>3</b> : Open (Polyimide) <b>4</b> : All coating (Polyimide) *350°C if the tape length exceeds 150mm.
<b>③ Thermocouple type</b>	<b>K</b> : Chromel-Alumel <b>E</b> : Chromel-Constantan
<b>④ Tape length</b>	<b>003</b> : 30mm <b>005</b> : 50mm <b>008</b> : 80mm <b>010</b> : 100mm ..... <b>200</b> : 2000mm
<b>⑤ Cable type</b> (See page 5)	<b>TS</b> : For ST-*1, ST-*2 <b>GW</b> : For ST-*3, ST-*4 <b>0</b> : Without cable
<b>⑥ Cable length</b>	<b>1</b> : 1m <b>1.5</b> : 1.5m <b>2</b> : 2m <b>2.5</b> : 2.5m ..... *No cable if the cable type is "0."
<b>⑦ Plug</b> (See page 4)	<b>ANP</b> <b>ASP</b> <b>W</b>

**① Sharp or Flat**  
You can choose junction form as below.



**② Coating type**  
You can choose coating type as below.



**④ Tape length**  
You can choose tape length as below.

003 : 30mm	020 : 200mm	045 : 450mm	090 : 900mm
005 : 50mm	025 : 250mm	050 : 500mm	100 : 1000mm
008 : 80mm	030 : 300mm	060 : 600mm	150 : 1500mm
010 : 100mm	035 : 350mm	070 : 700mm	200 : 2000mm
015 : 150mm	040 : 400mm	080 : 800mm	

## Specifications

Tolerance	Open    ±2.5°C (at 100°C) All coating    ±2.5°C (at 100°C)
Response time	Open    2.0 s All coating    8.0 s
Durability rank	S

## Attention

Where the probes are not glued or inserted, the operating temperature limits are as follows:

	ST-*1	ST-*2	ST-*3	ST-*4
Tape ≤ 150mm	200°C	180°C	200°C	200°C
Tape > 150mm	200°C	180°C	180°C	180°C

# Model SC series

## Screw Setting Probes

Model SC series probes are designed to measure stationary surfaces that can be attached to measurement targets with screws. Specific components may be combined to customize products for the needs of a customer's specific application.

### SC模式系列

SC模式系列产品是可以由螺丝钉固定在测试对象物上的静止表面用温度感应器。通过组合各个规格的组件，可以按照客户的用途进行个性选配。

モデルSCシリーズは、測定物にネジで固定できる静止表面用温度センサーです。各パーツの仕様を組み合わせる事により、お客様の用途に合わせてカスタマイズする事が出来ます。

## Typical probes of SC series

<b>Type K Model</b>	<b>SC-31K-TS1-ANP</b>
<b>Type E Model</b>	<b>SC-31E-TS1-ANP</b>

Temp. range	Tolerance	Response time	Durability
-50~150°C	±3.0°C (at 100°C)	5.0 s	S

<b>Type K Model</b>	<b>SC-32K-SG1-ANP</b>
<b>Type E Model</b>	<b>SC-32E-SG1-ANP</b>

Temp. range	Tolerance	Response time	Durability
-50~400°C	±3.0°C (at 100°C)	5.0 s	S

## How to order of SC series

### SC-31K-TS1-ANP

① ② ③ ④ ⑤ ⑥

① Screw size	2 : For φ2mm 3 : For φ3mm 4 : For φ4mm 5 : For φ5mm
② Max. temp.	1 : 200°C (SC-21) 150°C (SC-31, SC-41, SC-51) 2 : 300°C (SC-22) 400°C (SC-32, SC-42, SC-52)
③ Thermocouple type	<b>K</b> : Chromel-Alumel <b>E</b> : Chromel-Constantan
④ Cable type (See page 5)	<b>TA</b> * : For SC-21 <b>TS</b> : For SC-31, SC-41, SC-51 <b>GW</b> : For SC-22 <b>SG</b> : For SC-32, SC-42, SC-52
⑤ Cable length	1 : 1m      1.5 : 1.5m 2 : 2m      2.5 : 2.5m .....
⑥ Plug (See page 4)	<b>ANP</b> <b>ASP</b> <b>W</b>

### ① Screw size (mm)

2	
3	
4	
5	

## Specifications

Tolerance	±3.0°C (at 100°C)
Response time	5.0 s
Durability rank	S
Max. temp.	SC-21 : 200°C SC-22 : 300°C SC-31, SC-41, SC-51 : 150°C SC-32, SC-42, SC-52 : 400°C

\*Teflon insulated thermocouple (φ0.9mm)

# Model CR series

## Soldering Iron Probes

The Model CR Series is a temperature probe for the tips of soldering irons. Select the probe type best-suited to the diameter of your soldering iron tip.

### CR模式系列

CR模式系列产品是烙铁头温度探头。请根据烙铁头的直径选择正确的探头。当您使用HS模式系列(烙铁温度计)以外的温度计时,必须选购CRB模式系列专用连接器。

モデルCRシリーズは、はんだコテのコテ先用温度センサです。コテ先の径に合わせてセンサをお選び下さい。

## Typical probes of CR series

Type K Model **CR-31K**  
Type E Model **CR-31E**



Temp. range	Tolerance	Response time	Durability
0~500°C	±4.0°C (at 300°C)	5.0 s	S

Type K Model **CR-32K**  
Type E Model **CR-32E**



Temp. range	Tolerance	Response time	Durability
0~500°C	±4.0°C (at 300°C)	5.0 s	S

## How to order of CR series

① Diameter of the supporting iron future	<b>31</b> : Less than $\phi$ 1.5mm <b>32</b> : $\phi$ 1.5mm~ $\phi$ 4mm
② Thermocouple type	<b>K</b> : Chromel-Alumel <b>E</b> : Chromel-Constantan



# Model CRB series

## Accessories for Model CR series

The Model CRB Series is a base designed to connect CR Series temperature probes for soldering iron tips to thermometers other than HS Series soldering iron temperature gauges.

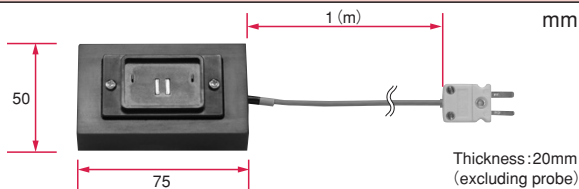
### CRB模式系列

CRB模式系列产品是CR模式系列(烙铁头温度探头)的专用连接器。

モデルCRBシリーズは、CRシリーズ(コテ先用温度センサ)を、はんだコテ温度計HSシリーズ以外の温度計測器と接続する為のベースです。

## CRB series

Type K Model **CRB-K-TS1-ANP**  
Type E Model **CRB-E-TS1-ANP**



## How to order of CRB series

① Thermocouple type	<b>K</b> : Chromel-Alumel <b>E</b> : Chromel-Constantan
② Cable type (See page 5)	<b>TS</b>
③ Cable length	<b>1</b> : 1m <b>1.5</b> : 1.5m <b>2</b> : 2m
④ Plug (See page 4)	<b>ANP</b> <b>ASP</b> <b>W</b>

