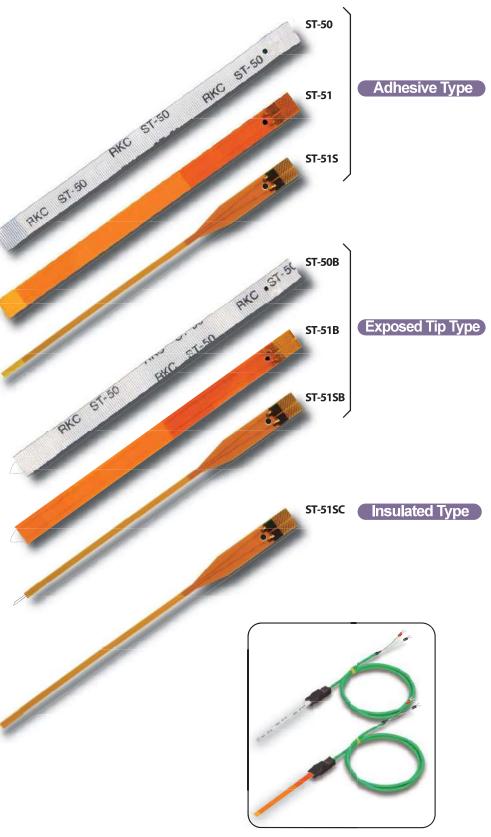
Film Type Temperature Sensors (Type K Thermocouple)

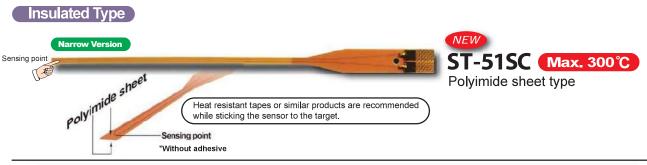
**ST-50** Series



# **Self-Adhesive** Thin Design

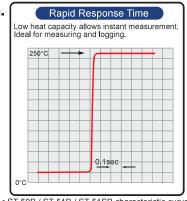
## Film Type Thermocouple Sensors





#### **Features**

- ·Ideal for measuring hard-to-reach target with its thin film design.
- •Compatible with all Type K Thermocouple Input instruments.
- ·Easily stick on target with Self-Adhesive Type or insert between two touching surfaces with Exposed Tip Type. Use Polyimide (PI) Insulated Type for applications where electrical insulation is needed.



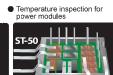
< ST-50B / ST-51B / ST-51SB characteristic curve>

## **Measuring Examples**













#### 0.34-mm-thick glass cloth. Available in lengths of 100/300/500mm.

•Thermocouple wire diameter of 50µm and 100µm are available with 100mm long sensor.
•Thermocouple wire diameter of 100µm is available with 300mm and 500mm long sensors

### 0.13-mm-thick Polyimide (PI) film. Ideal for using in cleanroom facilities.

•Please consult our sales representative for length of 300mm or 500mm

Madal/Div		Specification							
Model∕Dimensions	Jnit : mm	Туре	Film Thickness (mm)	Film Material	Measuring Range(*1)	95% of Response Time(*2)	Resistance with 1m of extension wire	Accuracy (*3)	Packaging
Model: ST-50  107  Thermocouple: k (Diameter 7 (Adhesive part (Sillcone Adhesive))			0.34	Glass cloth base	0~300°C	0.08sec.	51Ω	±1.3℃	5 pieces/pack
Model: ST-50-100-D  Thermocouple: K (Diameter 11 7 (Adhesive part (Sillcone Adhesive))	00μm)						17Ω	±1.5℃	5 pieces/pack
Model: ST-50-300 307 Thermocouple: K (Diameter 11 7 (Adhesive part (Sillcone Adhesive))	<b>→</b>   00μm)						41Ω	±1.5°C	1 piece/pack
Model: ST-50-500  507  Thermocouple: K (Diameter 11 7 (Adhesive part (Sillcone Adhesive))	00μm)	Adhesive Type					66Ω	±1.5℃	1 piece/pack
Model: ST-51-100-C  107  Thermocouple: K (Diameter to The Model to The	/		0.13	Polyimide sheet			51Ω	±1.3°C	5 pieces/pacl
Model: ST-51S-100-C  Thermocouple: (Diameter 3-7 (Adhesive part (Sillcone Adhesive)) Enhanced Protection 40mm (Thickness	1 G 50μm)				−40∼ +300°C		51Ω	±1.2°C	5 pieces/pack
Model: ST-50B-100-04  100  (Exposed tip part) Thermocouple: K (Diameter	50µm)		0.34	Glass cloth	0~300°C	0.03sec.	51Ω	±1.3°C	5 pieces/pacl
Model: ST-50B-100-04-D 100	00μm)						17Ω	±1.5°C	5 pieces/pac
Model: ST-50B-300-04  300  4 (Exposed tip part) Thermocouple: K (Diameter 1)				base			41Ω	±1.5°C	1 piece/pack
Model: ST-50B-500-04  500  A (Exposed tip part) Thermocouple: K (Diameter 1)		Exposed Tip Type					66Ω	±1.5°C	1 piece/pack
Model: ST-51B-100-04-C	50µm)		0.13	Polyimide sheet			51Ω	±1.3°C	5 pieces/pac
Model: ST-51SB-100-04-C  100    Thermocouple: K (Diameter Enhanced Protection 40mm (Thickness:	Т.; 50µm)				<b>-40~</b>	_	51Ω	±1.2°C	5 pieces/pac
Model: ST-51SC-100-C Enhanced Pro					+300°C	0.32sec.	51Ω	±1.2°C	5 pieces/pac

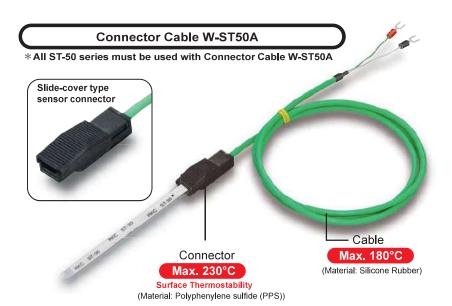
Type of sensor: Type K thermocouple element class 2

<sup>(\*2)</sup>While measuring paraffin wax temperature of 250  $^{\circ}\text{C}.$ 

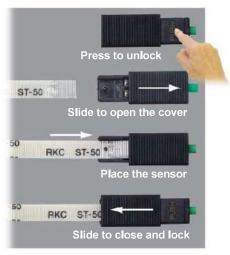


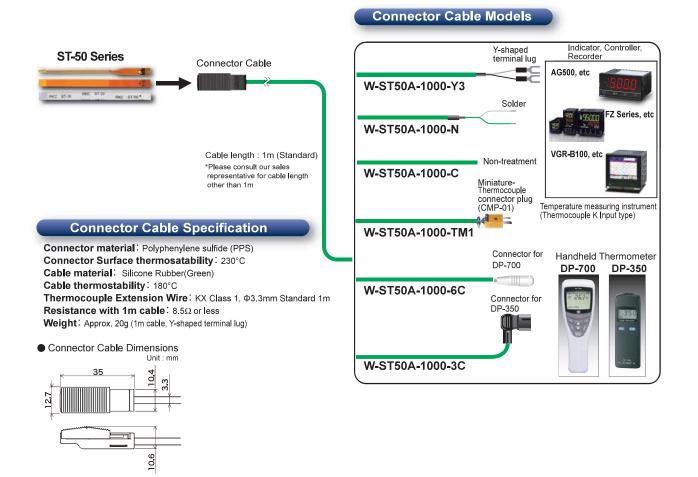
<sup>(\*1)</sup>Self-Adhesive section is good for multiplpe uses under following conditions: 1. Object temperature <=150°C. 2. Object temperature is maintained between 150°C and 200°C. 3. Object temperature is maintained between 250°C and 300°C. \*Result may be affected by environment and object surface condition.

<sup>\*</sup>Silicone adhesive is used and no siloxane is generated.



Easy for sensor installation and exchange Slide-cover type sensor connector







This product is intended for use with industrial machines, test and measuring

If it is possible that an accident may occur as a result of the failure of the product or some other abnormality, an appropriate independent protection device must be Do not touch the sensor with high-voltage connections or high-current line such as power supply terminals, or do not stick the sensor to avoid electric shock or failure.

equipment. It is not designed for use with medical equipment.



Caution for the export trade

All transactions must comply with laws, regulations, and treaties