Film Type Temperature Sensors (Type K Thermocouple)

ST-50 Series



RKC. BKC I

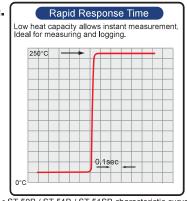
Self-Adhesive Thin Design

Film Type Thermocouple Sensors

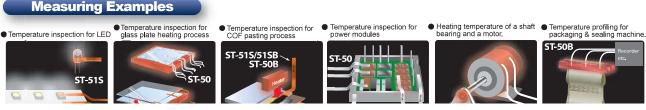


Features

- ·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>



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

		Specification							
Model/Dimensions Unit : 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 50µm)	Adhesive Type		Glass cloth base		0.08sec.	51Ω	±1.3℃	5 pieces/pack	
Thermocouple: K (Diameter 100µm) 7 (Adhesive part (Sillcone Adhesive))						17Ω	±1.5℃	5 pieces/pacl	
Model: ST-50-300 Thermocouple: K (Diameter 100µm) 7 (Adhesive part (Sillcone Adhesive))						41Ω	±1 . 5℃	1 piece/pack	
Model: ST-50-500 507 Thermocouple: K (Diameter 100μm) 7 (Adhesive part (Sillcone Adhesive))						66Ω	±1.5℃	1 piece/pack	
Model: ST-51-100-C 107 Thermocouple: (Diameter 50,µm) That (Silling Adhesive) Enhanced Protection 40mm (Thickness; 0,18mm)		0.13	Polyimide sheet			51Ω	±1.3°C	5 pieces/pac	
Model: ST-51S-100-C Thermocouple: K (Diameter 50µm) Total Adhesive part (Sillone Adhesive)) Enhanced Protection 40mm (Thickness: 0,18mm)				-40∼ +300°C		51Ω	±1.2°C	5 pieces/pac	
Model: ST-50B-100-04 100 Thermocouple: K (Diameter 50µm)	Exposed Tip Type	0.34	Glass cloth base	0~300°C	0.03sec.	51Ω	±1.3°C	5 pieces/pac	
Model: ST-50B-100-04-D 4 (Exposed tip part) Thermocouple: K (Diameter 100µm)						17Ω	±1.5°C	5 pieces/pac	
Model: ST-50B-300-04 (Exposed tip part) Thermocouple: K (Diameter 100µm)						41Ω	±1.5°C	1 piece/pacl	
Model: ST-50B-500-04 6 (Exposed tip part) Thermocouple: K (Diameter 100µm)						66Ω	±1.5°C	1 piece/pacł	
Model : ST-51B-100-04-C 100 Thermocouple: K (Diameter 50µm) Enhanced Protection 40mm (Thickness : 0.18mm)		0.13	Polyimide sheet			51Ω	±1.3°C	5 pieces/pac	
Model: ST-51SB-100-04-C 100 100 Thermocouple: K (Diameter 50µm) Enhanced Protection 40mm (Thickness: 0,18mm)				-40 ~	~	51Ω	±1.2°C	5 pieces/pac	
Model: ST-51SC-100-C Enhanced Protection 40mm 107 (Thickness: 0.18mm) Thermocouple: K (Diameter 50μm) Insulation resistance: More than 10MΩ at 500V DC Dielectric voltage: 500V AC for one minute.				+300°C	0.32sec.	51Ω	±1.2°C	5 pieces/pac	

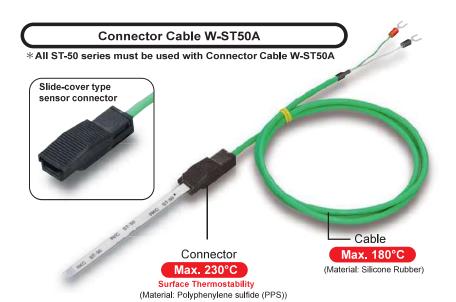
Type of sensor: Type K thermocouple element class 2

^(*1)Self-Adhesive section is good for multiplipe 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.

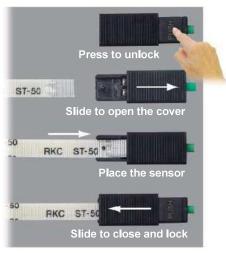
*Result may be affected by environment and object surface condition.

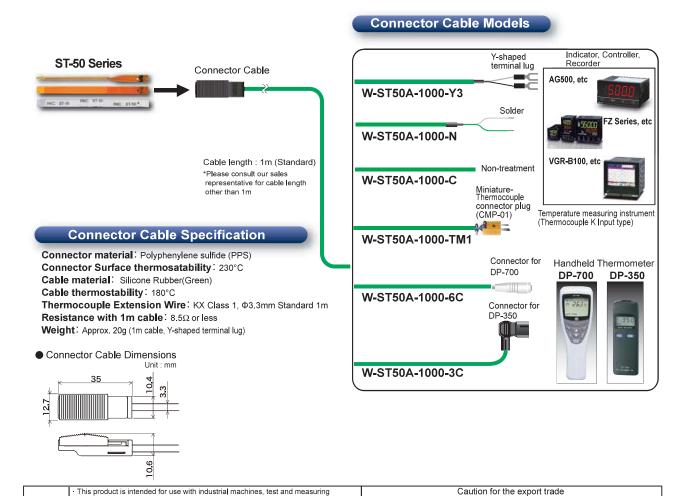
^{*}Silicone adhesive is used and no siloxane is generated.

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



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







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 installed.

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.

All transactions must comply with laws, regulations, and treaties