Film Type Temperature Sensors (Type K Thermocouple)

ST-50 Series

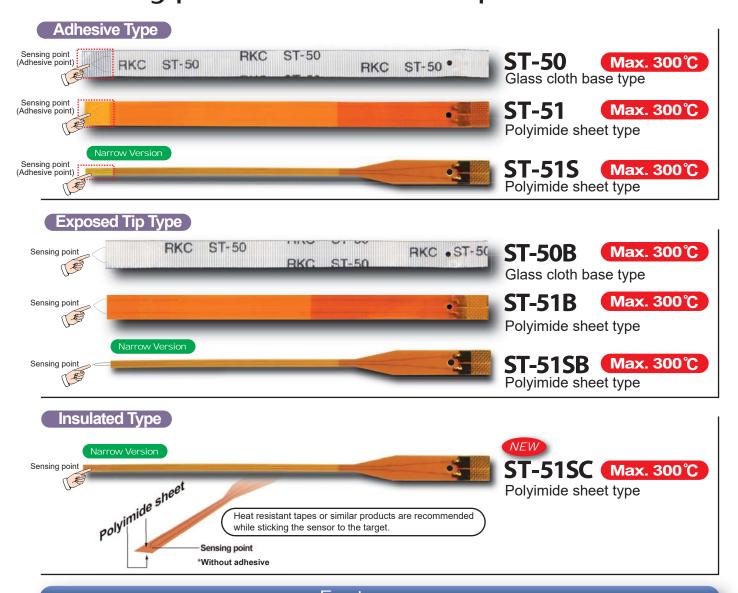




RKC INSTRUMENT INC.

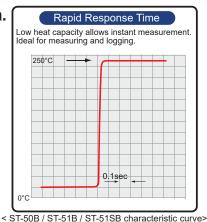


Self-Adhesive Thin Design Film Type Thermocouple Sensors



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.



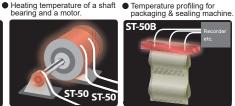
Measuring Examples











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.

Available in lengths of 100/500mm(ST-51/ST-51B).

 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-50 107 107 107 107 107 107 107 107 107 10		(IIIII)			(2)	51Ω	±1.3℃	5 pieces/pack
Thermocouple: K (Diameter 50μm) 7 (Adhesive part (Sillcone Adhesive))						3112	21.50	
Model: ST-50-100-D Thermocouple: K (Diameter 100µm)	Adhesive Type	0.34	Glass cloth base	0~300°C	0.08sec.	17Ω	±1.5°C	5 pieces/pack
Model: ST-50-300 Thermocouple: k (Diameter 100µm)						41Ω	±1.5℃	1 piece/pack
Model: ST-50-500 Thermocouple: k (Diameter 100 μm)						66Ω	±1.5℃	1 piece/pack
Model: ST-51-100-C Thermocouple: K (Diameter 50µm) To Adhesive part (Silicone Adhesive) Thermocouple: K (Diameter 50µm) To Adhesive part (Silicone Adhesive) Enhanced Protection 40mm (Thickness: 0.18mm)		0.13	Polyimide sheet			51Ω	±1.3℃	5 pieces/pack
Enhanced Protection 40mm (Thickness : 0.18mm) Model : ST-51-500-D Thermocouple: K (Diameter 100µm) Todhesive part (Silicone Adhesive)						66Ω	±1.5℃	1 piece/pack
Model: ST-51S-100-C Thermocouple: K (Diameter 50µm) Todhesive part (Silicone Adhesive)				-40∼ +300°C		51Ω	±1.2℃	5 pieces/pack
Model: ST-50B-100-04 The manual Protection 40mm (Thickness: 0.18mm) Model: ST-50B-100-04	Exposed Tip Type	0.34	Glass cloth base	0~300°C	0.03sec.	51Ω	±1.3°C	5 pieces/pack
Model: ST-50B-100-04-D 100 4 (Exposed tip part) Thermocouple: K (Diameter 100µm)						17Ω	±1.5°C	5 pieces/pack
Model: ST-50B-300-04 4 (Exposed tip part) Thermocouple: K (Diameter 100µm)						41Ω	±1.5℃	1 piece/pack
Model: ST-50B-500-04 500						66Ω	±1.5℃	1 piece/pack
Model : ST-51B-100-04-C 100 100 4 (Exposed tip part) Enhanced Protection 40mm (Thickness : 0.18mm)		0.13	Polyimide sheet			51Ω	±1.3°C	5 pieces/pack
Model : ST-51B-500-04-D						66Ω	±1.5℃	1 piece/pack
Model: ST-51SB-100-04-C Comparison				-40~ +300°C		51Ω	±1.2°C	5 pieces/pack
Model: ST-51SC-100-C Enhanced Protection 40mm 107 (Trickness: 0.18mm) Thermocouple: K (Diameter 50μm) Insulation resistance: More than 10MΩ at 500V DC					0.32sec.	51Ω	±1.2℃	5 pieces/pack

Type of sensor: Type K thermocouple element class 2

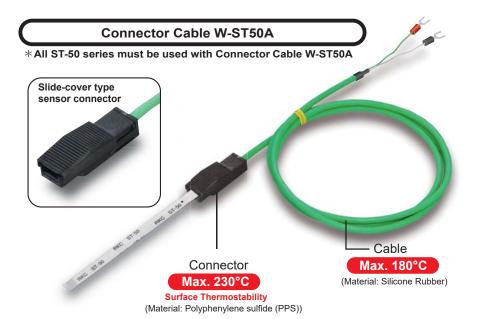
^(*1)Self-Adhesive section is good for multiplipe uses under following conditions: 1. Object temperature <=150°C. 2. Object temperature is maintained between 150°C and 200°C. 3. Object temperature is maintained between 150°C and 200°C. *Result may be affected by environment and object surface condition.

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

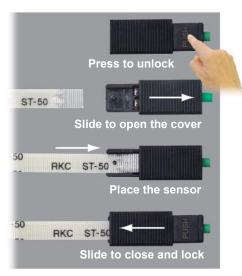
^(*2)While measuring paraffin wax temperature of 250°C.

^(*3)While measuring copper surface temperature of 100C. **Exposed-Tip type is tested with using of polyimide adhesive.

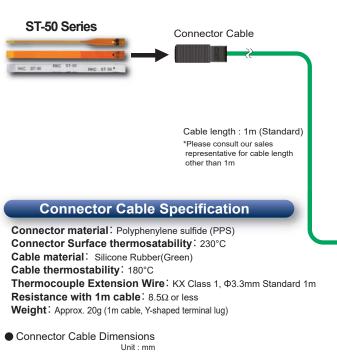
Response time of measuring metal surface (Adhesive Type only):

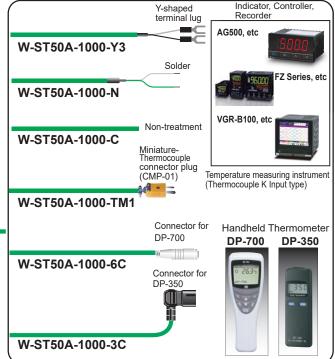


Easy for sensor installation and exchange Slide-cover type sensor connector



Connector Cable Models







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

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

Caution for the export trade

All transactions must comply with laws, regulations, and treaties



HEAD OFFICE: 16-6, KUGAHARA 5 CHOME OHTA-KU TOKYO 146-8515 JAPAN

PHONE: 03-3751-9799 (+81 3 3751 9799)

Email: info@rkcinst.co.jp https://www.rkcinst.com/