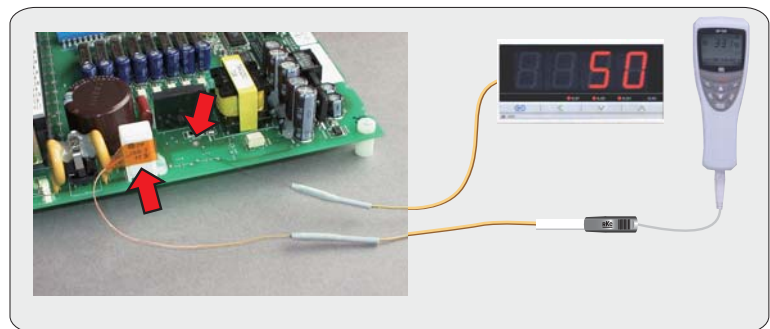
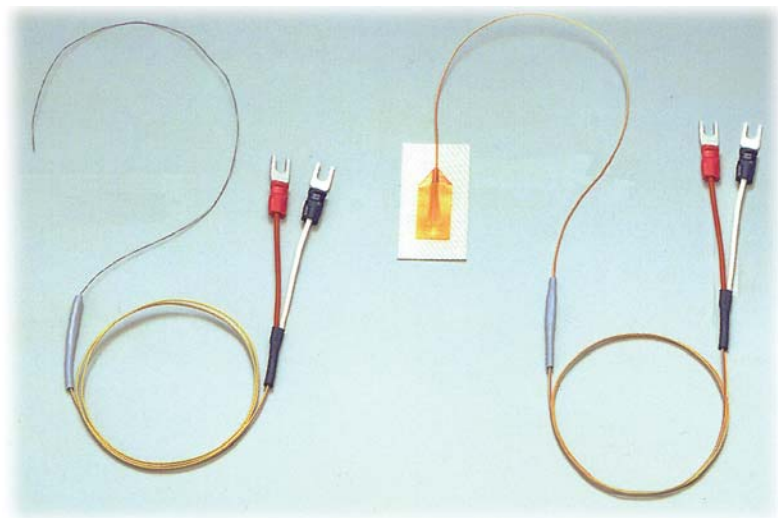


TEMPERATURE SENSOR

ST-55/56

Temperature Sensor
for Extremely Small Surface



Type K thermocouple to measure the temperature of a fine surface

Features

Measuring temperature in a small surface area

A fine thermocouple enables measurement of a fine surface or a surface with small thermal capacity such as SMT parts.

Maximum temperature measurement

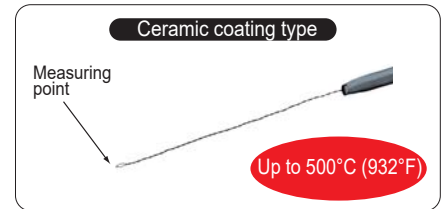
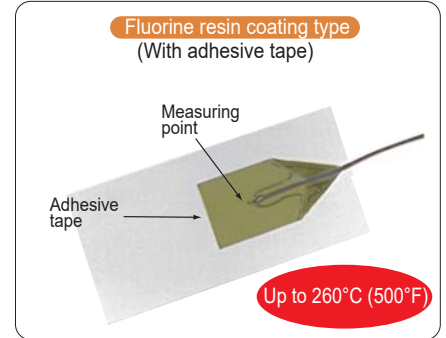
Ceramic coating type sensor is rated to 500°C (932°F) and fluorine resin coating type sensor is rated to 260°C (500°F).

Optional adhesive tape on the tip

Optional adhesive tape on the fluorine resin coating type allows the tip to stick to an exact spot for measurement.

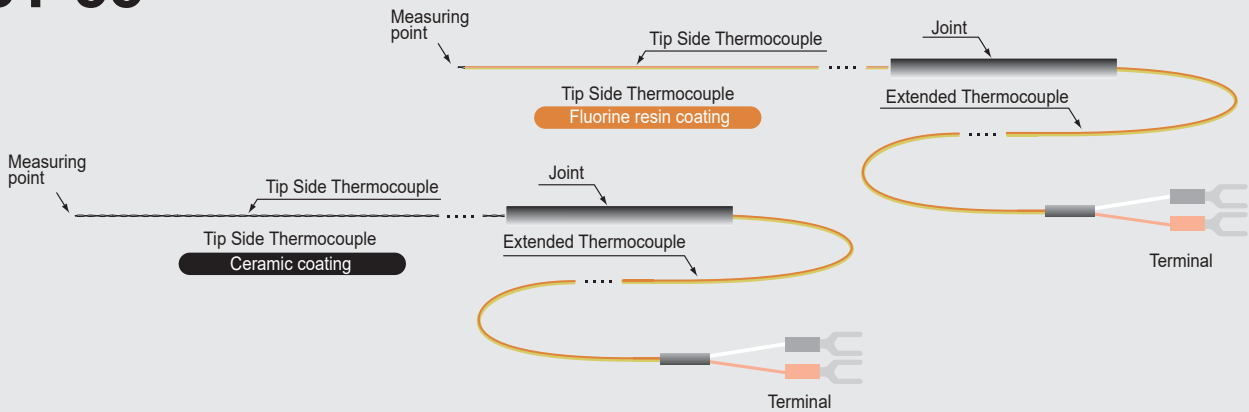
Fast response with fine thermocouple

Measuring point on the tip



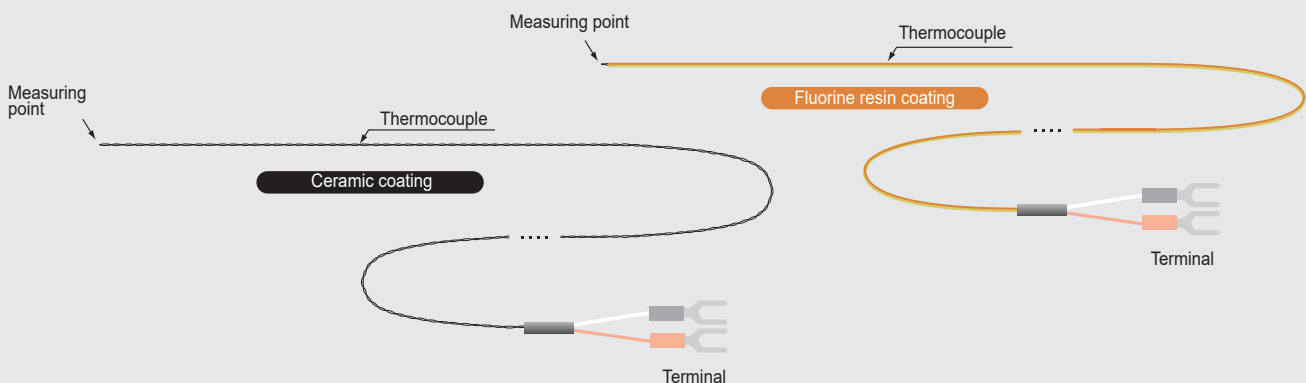
ST-55

ST-55 has a joint which enables a longer length



ST-56

ST-56 is a seamless thermocouple



Model and Suffix Code

ST-55

Specifications	Contents	Suffix Code				
Model	ST-55	K - □ □ □ □ □ □ - G - □ □ □ □ - □				
Thermocouple	Type K	K				
Shape of Thermocouple (Element wire diameter/Coating)	ø0.076 Fluorine resin coating (Single thermocouple type)	TA				
	ø0.076 Fluorine resin coating (Paired thermocouple type)	TB				
	ø0.127 Fluorine resin coating (Paired thermocouple type)	TC				
	ø0.1 x 2 Ceramic coating	CA				
	ø0.2 x 2 Ceramic coating	CB				
Thermocouple length *1	Unit : mm (Min.50mm) Specify every 50mm unit		□ □ □ □			
Adhesive tape for tip	Polymide tape * Fluorine resin coating type only			P		
	Glass cloth base tape * Fluorine resin coating type only			G		
	None			N		
Joint specifications	Silicone rubber coating (Max. temperature : 170°C)			G		
Shape of Extended Thermocouple (Element wire diameter/Coating)	ø0.127 Fluorine resin coating (Paired thermocouple type)				TC	
	ø0.254 Fluorine resin coating (Paired thermocouple type)				TD	
Extended thermocouple length *1	Unit : mm (Min.200mm) Specify every 50mm unit				□ □ □ □	
Terminal	Miniature-thermocouple connector plug	CMP01-K (RKC product) Material : Polyamide (Max. temperature : 140°C (284°F))				C1
		CMR01-K (RKC product) Material : PPS resin (Max. temperature : 220°C (428°F))				C2
		1260-K (MARINE product) (Max. temperature : 205°C (401°F))				C3
		Y-sharped terminal lugs for M3 *2				Y
		Confirming to cable connector for DP-350/700 connection				G
	Non-treatment				N	

*1 Please select length so that a total resistance of thermocouple become 100Ω or less.

Thermocouple resistance per 100mm

ø0.076mm : 20Ω	ø0.10mm : 13Ω
ø0.127mm : 8Ω	ø0.20mm : 3.1Ω
ø0.254mm : 2Ω	

Ex. Thermocouple ø0.076mm type : 100mm (20Ω x 1=20Ω)
 Extended thermocouple ø0.254mm : 2000mm (2Ωx20=40Ω) } Total 60Ω

*2 Y-sharped terminal lugs for M3 is not available if extended thermocouple was specified ø0.127 (Code : TC).

ST-56

Specifications	Contents	Suffix Code				
Model	ST-56	K - □ □ □ □ □ □ - □ - □				
Thermocouple	Type K	K				
Shape of Thermocouple (Element wire diameter/Coating)	ø0.076 Fluorine resin coating (Single thermocouple type)	TA				
	ø0.076 Fluorine resin coating (Paired thermocouple type)	TB				
	ø0.127 Fluorine resin coating (Paired thermocouple type)	TC				
	ø0.254 Fluorine resin coating (Paired thermocouple type)	TD				
	ø0.1 x 2 Ceramic coating	CA				
	ø0.2 x 2 Ceramic coating	CB				
	ø0.32 x 2 Ceramic coating	CC				
Thermocouple length *1	Unit : mm (Min.200mm) Specify every 50mm unit		□ □ □ □			
Adhesive tape for tip	Polymide tape * Fluorine resin coating type only			P		
	Glass cloth base tape * Fluorine resin coating type only			G		
	None			N		
Terminal	Miniature-thermocouple connector plug	CMP01-K (RKC product) Material : Polyamide (Max. temperature : 140°C (284°F))				C1
		CMR01-K (RKC product) Material : PPS resin (Max. temperature : 220°C (428°F))				C2
		1260-K (MARINE product) (Max. temperature : 205°C (401°F))				C3
		Y-sharped terminal lugs for M3 *2				Y
		Confirming to cable connector for DP-350/700 connection				G
	Non-treatment				N	

*1 Please select length so that resistance of thermocouple become 100Ω or less.

Thermocouple resistance per 100mm

ø0.076mm : 20Ω	ø0.10mm : 13Ω
ø0.127mm : 8Ω	ø0.20mm : 3.1Ω
ø0.254mm : 2Ω	ø0.32mm : 1.2Ω

Ex. Thermocouple ø0.10mm type : 500mm (13Ω x 5=65Ω)

*2 Y-sharped terminal lugs for M3 is not available if thermocouple was specified ø0.076 or ø0.127 (Code : TA/TB).



- Before operating this product, read the instruction manual carefully to avoid incorrect operation.
- 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 installed.

Caution for the export trade

All transactions must comply with laws, regulations, and treaties.

Caution for imitated products

As products imitating our product now appear on the market, be careful that you don't purchase these imitated products. We will not warrant such products nor bear the responsibility for any damage and/or accident caused by their use.

RKC® RKC INSTRUMENT INC.
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