

TEMPERATURE PROBES , THERMOCOUPLE SURFACE TYPE

SF001C



◆ Proximity Surface Probe (3 slice)

Miniature, fast response probe with 400°C max. (800°C for 1 slice) surface temperature. Ideal for surface temperatures of small electronic parts. "Class 1" or "Class 2" Sensor selectable.

SF001D



◆ Proximity Surface Probe (1 slice), Superior Class

Miniature, "Class 1" Sensor with 300°C max. surface temperature. Ideal for surface temperatures of small electronic parts.

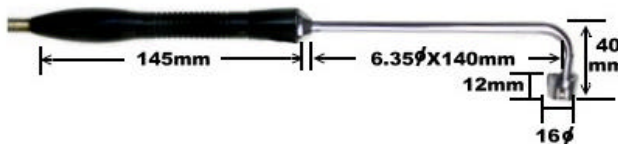
SF002A



◆ General Stationary Surface Probe

Extend, 130 mm reach version of the Surface Probe. Fast response design with 400°C for 3 slice (800°C for 1 slice) max. surface temperature for use in oven and furnaces. "Class 1" or "Class 2" Sensor selectable.

SF003B



◆ General Stationary Surface Probe

Right-angle probe for fast response times. Sheath length is 140 mm. Max. surface temperature is 400°C for 3 slice (800°C for 1 slice). "Class 1" or "Class 2" Sensor selectable.

SF005AB



◆ Roller Surface Probe, Teflon Rollers

A roller-surface probe, for use on moving or rotating, smooth surfaces. Max. surface temperature of 250°C, Teflon roller of 19mm diameter. "Class 1" or "Class 2" Sensor selectable.

SF005BA



◆ Extension Roller Surface Probe, Right-angle, SUS Rollers

A right-angle extended roller-surface probe, for use on moving or rotating, smooth surfaces. Max. surface temperature of 250°C, SUS roller of 19mm diameter. "Class 1" or "Class 2" Sensor selectable.

SF005BB

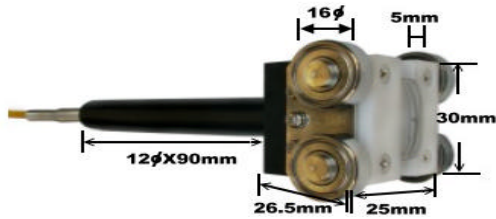


◆ Roller Surface Probe, SUS Rollers

A roller-surface probe, for use on moving or rotating, smooth surfaces. Max. surface temperature of 250°C, SUS roller of 19mm diameter. "Class 1" or "Class 2" Sensor selectable.

TEMPERATURE PROBES , THERMOCOUPLE SURFACE TYPE

SF005C



◆ Roller Surface Probe, Bearing Rollers

A miniature roller-surface probe, ideal for measuring temperatures of smooth plastic or steel piping and moving or rotating surfaces. Max. surface temperature of 250°C, Bearing roller of 16mm diameter. "Class 1" or "Class 2" Sensor selectable.

SF005D



◆ Roller Surface Probe, Teflon Rollers

A miniature roller-surface probe, ideal for measuring moving or rotating surfaces in food processing. Max. surface temperature of 250°C, Teflon roller of 16mm diameter. "Class 1" or "Class 2" Sensor selectable.

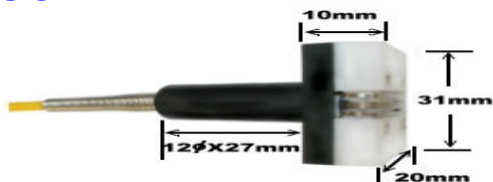
SF006A



◆ Magnetic Surface Probe, Head type (3 slice)

Magnetic surface probes designed for stationary surfaces required attachment with magnet. Max. surface temperature of 250°C, 1.8M Silicon cable lead. Customer Replaceable Element included : probe is supplied with one additional (3 slice) element.

SF006



◆ Magnetic Surface Probe, Handler type

Magnetic surface probes designed for stationary surfaces. Built-in magnets allow these probes to be attached to measure targets. Max. surface temperature of 250°C

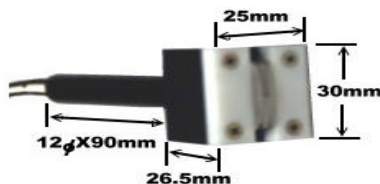
SF007



◆ General Stationary Surface Probe, with Spring

Ceramic tip probe features a spring-loaded thermocouple to ensure consistent readings; tip rated to 800°C

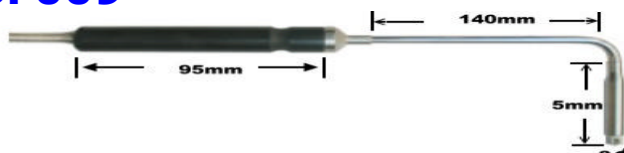
SF008



◆ Moving Surface Probe

Ideal for measurements of moving or stationary flat, smooth surfaces. Max. surface temperature of 250°C allows for use on both metal and plastic surfaces. "Class 1" or "Class 2" Sensor selectable.

SF009



◆ General Stationary Surface Probe, with Spring

Right-angle Ceramic tip probe features a spring-loaded thermocouple to ensure consistent readings; tip rated to 800°C

TEMPERATURE PROBES , THERMOCOUPLE INTERNAL TYPE

SF010



◆ Air Probe

Air probe; drilled end exposes bead to air flow for fast measurements; 6.4 mm diameter shield head and 150 mm SUS shaft, tip rated to 800°C

SF011



◆ Air Probe

Air probe; drilled end exposes bead to air flow for fast measurements; 4.8 mm diameter shield head and 150 mm SUS shaft, tip rated to 800°C

SF013A



◆ Immersion Probe, Superior Class

General purpose immersion probe; "Class 1" Sensor, 3.2 mm dia., K type, SUS 304, tip rated to 400°C

SF014



◆ Penetration Probe, Needle type Superior Class

Pointed tip design "Class 1" Sensor, ideal for measuring soft and semi-frozen material, molten plastics and rubbers. 150mm sheath, 400°C max service temperature, 3.2 mm diameter, K type, SUS 304

SF015



◆ Penetration Probe, Widened Flat type

Flat tip design, ideal for measuring smooth and flat material. 150mm sheath, 400°C max service temperature, 3.2 mm diameter, K type, SUS 304

SF016



◆ Penetration Probe, Cone type Superior Class

Penetration probe conical tip designed for penetration into semi-frozen objects; "Class 1" Sensor, tip rated to 400°C, K type, SUS 304

TEMPERATURE PROBES , THERMOCOUPLE INTERNAL TYPE

SHJ001



◆ General Internal Probe, Thermocouple, Type J

General internal tip, Thermocouple probe; 3.2 mm diameter at tip; tip rated for temperatures up to 450°C, J type, SUS 316

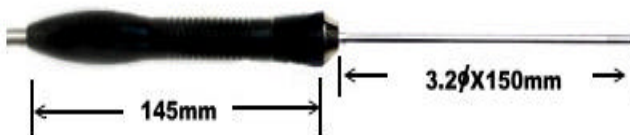
SH005-1



◆ General Internal Probe, Thermocouple, Type K

General internal tip, Thermocouple probe; 3.2 mm diameter at tip; tip rated for temperatures up to 800°C, K type, SUS 316

SH005



◆ Immersion Probe

General internal tip, fast-response probe; 3.2 mm diameter at tip; tip rated for temperatures up to 800°C, K type, SUS 316. (Thermocouple type K, J or T selectable)

SH006



◆ Penetration Probe, Needle type

Penetration probe NEEDLE tip designed for penetration into semi-frozen objects; tip rated to 800°C , 3.2 mm diameter, K type, SUS 316. (Thermocouple type K, J or T selectable)

SH007



◆ Penetration Probe, Chisel type

Penetration probe Chisel tip designed for penetration into semi-frozen objects; tip rated to 800°C , 3.2 mm diameter, K type, SUS 316. (Thermocouple type K, J or T selectable)

TEMPERATURE PROBES , RTD

PT001



◆ General Internal Probe, RTD

General internal tip, RTD probe; "Class A" or "Class B" Sensor selectable, 3.2 mm diameter at tip; tip rated for temperatures up to 250°C, PT100, SUS 304, 1M PVC cable lead, Connector 3 pin Mini Plug.

PT002



◆ General Internal Probe, RTD

General internal tip, RTD probe; "Class A" or "Class B" Sensor selectable, 3.2 mm diameter at tip; tip rated for temperatures up to 250°C, PT100, SUS 304, 1M PVC cable lead, Connector DIN Mini Plug.

PT003



◆ General Internal Probe, RTD

General internal tip, RTD probe; "Class A" or "Class B" Sensor selectable, 3.2 mm diameter at tip; tip rated for temperatures up to 250°C, PT100, SUS 304, 1M PVC cable lead, Connector Plug

PT004



◆ General Air Probe, RTD

General internal tip, RTD probe; "Class A" or "Class B" Sensor selectable, 3.2 mm diameter at tip; tip rated for temperatures up to 250°C, PT100, SUS 304, 1M PVC cable lead

PT005



◆ Proximity Surface Probe, RTD

Miniature, fast response probe with 250°C max. surface temperature, PT100, SUS 304. Ideal for surface temperatures of small electronic parts.

PT005A



◆ Immersion Probe, RTD

General internal tip "Class A" or "Class B" Sensor selectable, fast-response probe; 3.2 mm diameter at tip; tip rated for temperatures up to 250°C, PT100, SUS 304, Handler length 95mm

PT010A



◆ Air Probe, RTD

Air probe; drilled end exposes bead to air flow for fast measurements; "Class A" or "Class B" Sensor selectable, PT100, 6.4 mm diameter shield and 150 mm shaft, rated to 300°C, Handler length 95mm

PT016A



◆ Penetration Probe, Cone type, RTD

Penetration probe conical tip designed for penetration into semi-frozen objects; tip rated to 250°C, PT100, SUS 304

TEMPERATURE PROBES , QUICK CONNECT / SPECIAL TYPE (THERMOCOUPLE / RTD)

SH001



◆ Transition Joint Probe

Sheath or SUS Tube selectable for thermocouple

SH002



◆ Quick Connect Probe

General purpose probe with miniature connector; 3.2 mm dia. Sheath shaft, tip rated to 250°C

SH003



◆ Quick Connect Probe, T connector

Probe with T connector ; TS or TL connector selectable

PT006



◆ Quick Connect Probe, RTD

General purpose probe with miniature connector and Mating connector, Sheath or SUS Tube selectable

SH009



◆ Teflon Coated Probe, Acid-proof Thermocouple

For corrosive chemical solutions in industrial and laboratory environments.

Superior corrosion resistance (acid-resisting and alkali-resisting) of Teflon allows to measure the temperature of sulfuric, hydrochloric, nitric, chromic acids, and caustic compounds.

SH023



◆ Thermo Leads

Teflon beaded wire with miniature connector and colored by thermocouple type K or J

Transition Joint Probes



◆ Rugged Transition Joint Probes, with or without connector

ALL Custom Made, Sheath or SUS Tube selectable.

Selection Guide?

	SHAFT	TYPE	MATERIAL	DIAMETER
THERMOCOUPLE	Sheath	K, E, J, T, N	SUS316, Inconel	1.0, 1.6, 2.4, 3.2, 4.8, 6.4, 8.0 mm
	Tube	K, E, J, T, B, R, S	SUS 304, 316, 310 Ceramic Tube (Alumina / Al ₂ O ₃)	SUS -- 3.2, 4.8, 5.0, 6.0, 6.4, 8.0, 9.5, 10, 12, 12.7, 15, 15.9, 20.4, 21.7 mm Ceramic Tube -- 6.0, 8.0, 10, 12, 15, 17 mm
RTD	Sheath	JIS and DIN	SUS316	3.2, 4.8, 6.4, 8.0mm
	Tube		SUS304, 316 Titanium (Ti) Tube	SUS -- 3.2, 4.8, 5.0, 6.0, 6.35, 8.0, 9.5, 10, 12, 12.7, 15, 15.9, 20.4, 21.4 mm Ti Tube -- 6.4, 12.7 mm

<NOTE>

1. Thermocouple Tolerance (Limits of Error) : "Class 1" - 0.4% | "Class 2" - 0.75% ;
RTD Tolerance : "Class A" - 0.06% | "Class B" - 0.12%
2. Surface Type Temperature Probes are available for Thermocouple Type K, Type J, Type E and RTD only.
3. Standard Cable Lead 2M PU for Thermocouple, 1M PVC for RTD & 1.8M for SF006A. The length & material of Cable Lead are changeable by customer request.
4. All specifications of components, including Sensor Class may be revised, modified, or upgraded as the customized products based on the special requirement or specific application.