

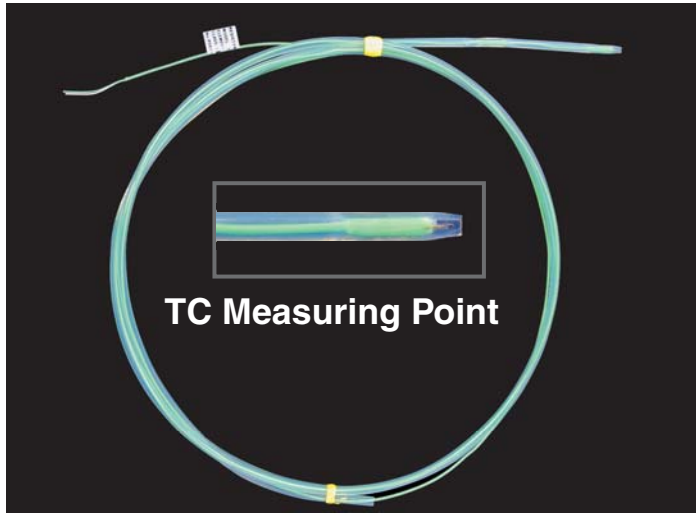
RKC Instrument New Product Announcement

PFA Coated Temperature Sensor

PFA-Coated Temperature Sensors: Superior Resistance to Chemicals and Humidity

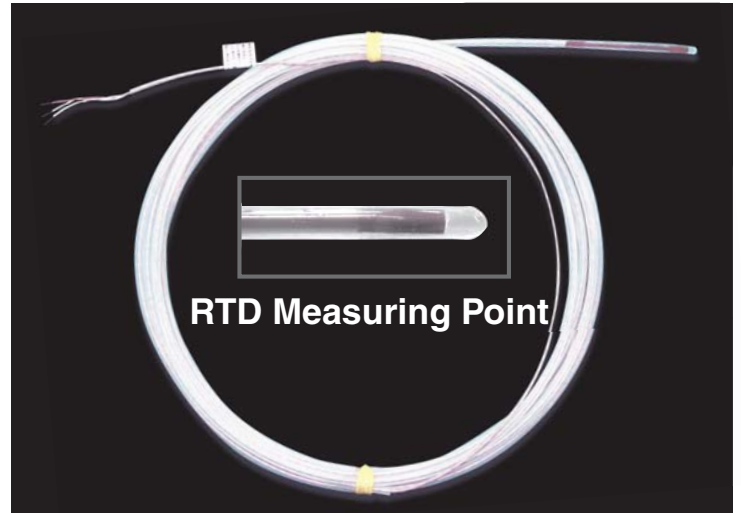
Thermocouple

FT-100



Resistance Temperature Detector

FR-100



Features

Excellent Chemical Resistance

The PFA coating offers strong resistance to chemicals, ensuring stable and accurate temperature measurement.

Measurement of temperature in high humid environment

PFA coating on lead wires and measuring points ensures long-term stability in humid and chemical environments.

Meets Semiconductor Manufacturing Process Requirements

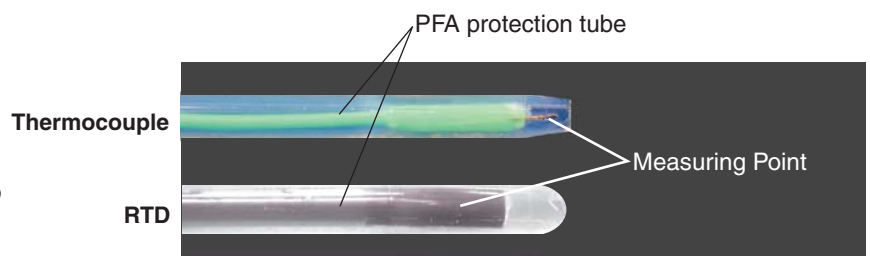
Ultrasonic cleaning with clean packing is available.

Reference:

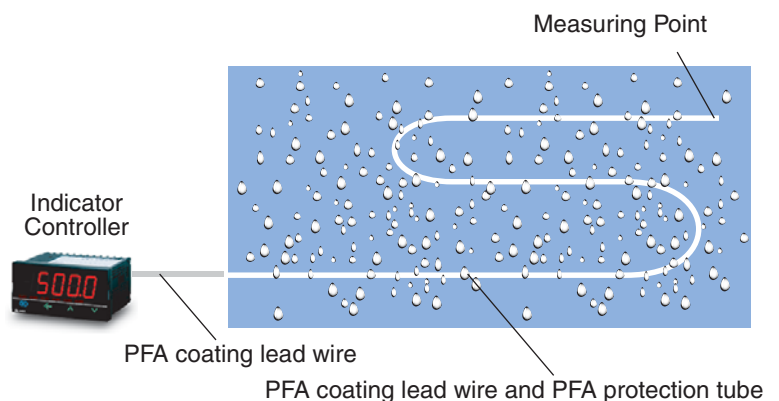
Teflon® is a brand name for fluoropolymers, such as PTFE (Polytetrafluoroethylene).

Teflon® is a registered trademark of The Chemours Company (DuPont).

FT-100/FR-100 utilizes PFA (Perfluoroalkoxy alkane) fluoropolymer.

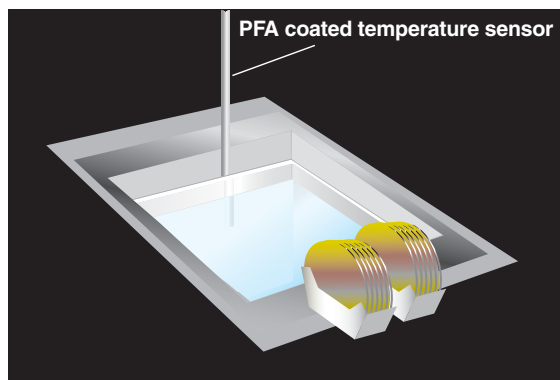


The temperature measuring point is securely welded to the protection tube, ensuring excellent response.

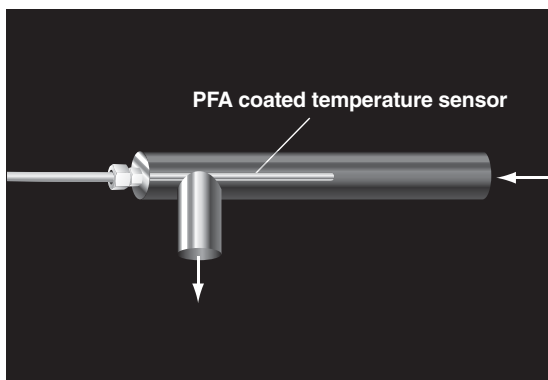


Application

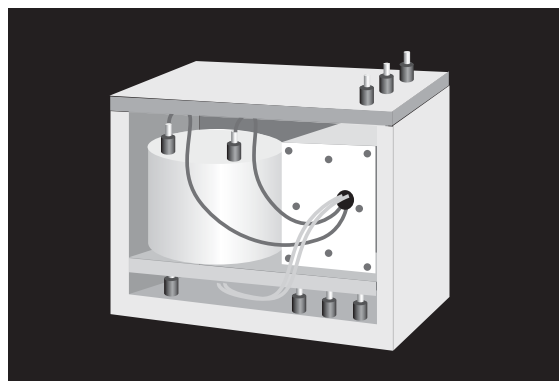
Cleaning Chemicals



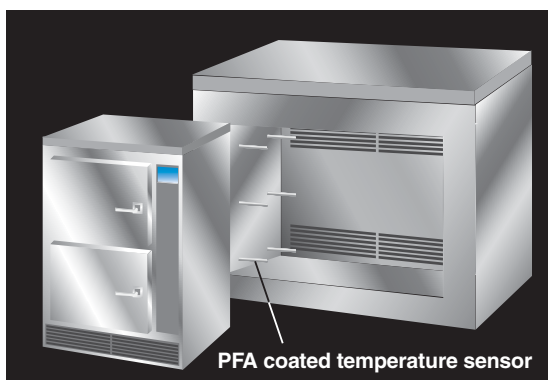
Gas Exhaust Pipe



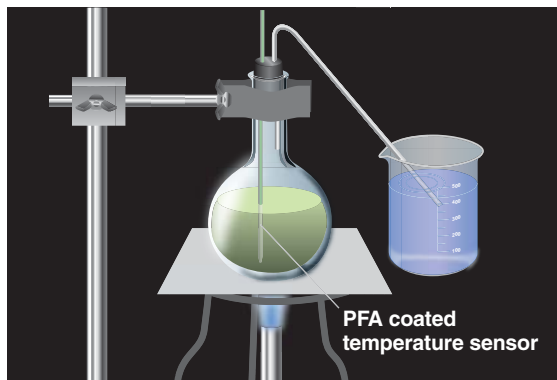
Chemical liquid supply device



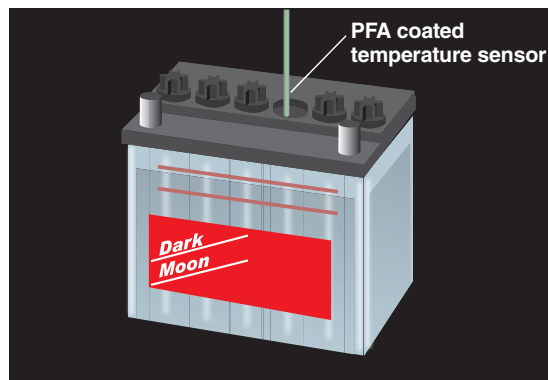
Environmental test chambers



Reaction temperature of the chemical



battery electrolyte



Standard Specifications

Thermocouple

FT-100

Type:	Thermocouple Class 1 (JIS C 1602-1995)
Measuring range:	0~200°C
Accuracy:	±1.5°C
Protection tube material:	PFA
Lead wire diameter:	1.0×1.6mm
Lead configure:	φ0.32mm×1
Lead coating material:	PFA
Standard diameter of protection tube:	250~5000mm
Standard diameter of lead wire:	500~9000mm

Resistance Temperature Detector

FR-100

Type:	Pt100 at 0°C Class A (JIS C 1604-1997)
Measuring range:	0~200°C
Accuracy:	± (0.15+0.002 t) °C (t : Measured temperature)
Protection tube material:	PFA
Lead wire diameter:	φ1.7mm
Lead configure:	φ0.1mm×7
Lead coating material:	PFA
Standard diameter of protection tube:	250~5000mm
Standard diameter of lead wire:	500~9000mm

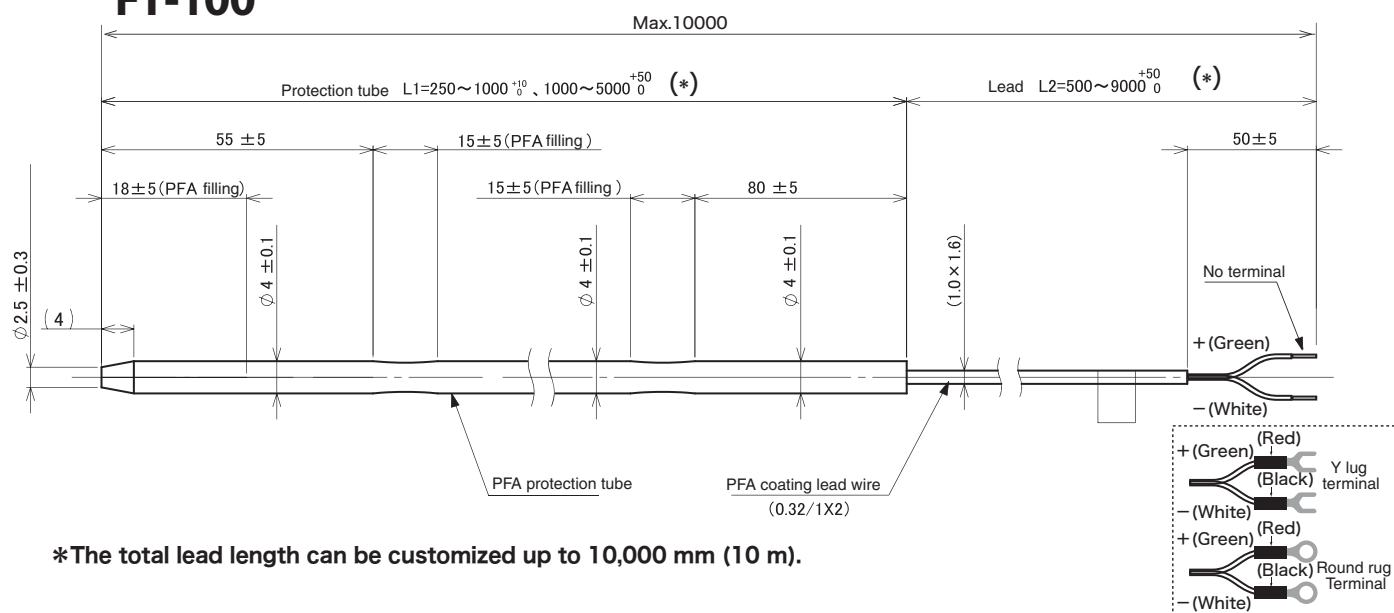
*Total lead length of the protection tube length can be manufactured in 10000mm (10m) below.

Standard Dimension

Note: Other lengths of protection tube and lead wire are available on request. Ask for pricing and availability.

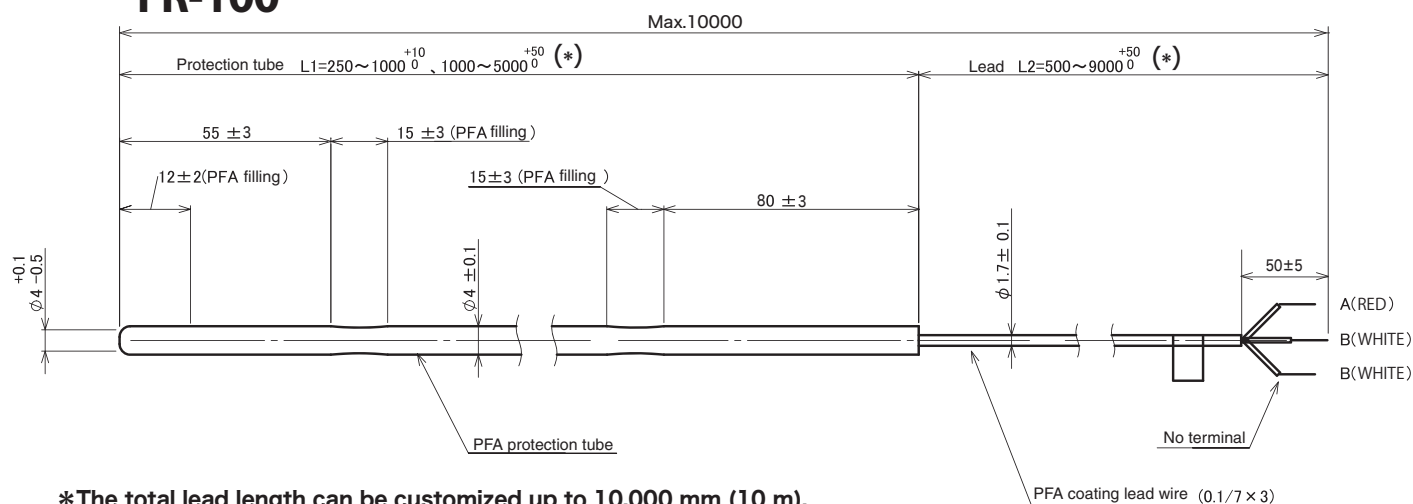
(Unit: mm)

Thermocouple FT-100



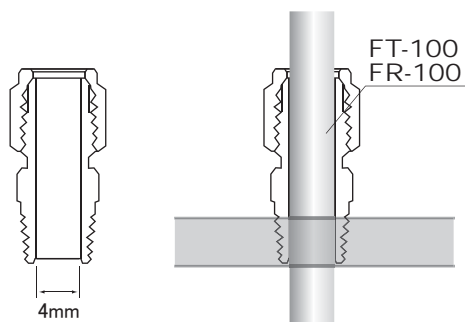
*The total lead length can be customized up to 10,000 mm (10 m).

Resistance Temperature Detector FR-100



*The total lead length can be customized up to 10,000 mm (10 m).

◆ If you are using a mounting fitting, please select the inner diameter 4mm specification.



Model Code

Thermocouple

FT-100

Specification	PFA coated temperature sensor (Thermocouple) FT-100	① ② ③ ④ ⑤ ⑥ ⑦						
		- K - 42 - A - <input type="text"/> - <input type="text"/> - <input type="text"/> - <input type="text"/>						
① Input type	Thermocouple K Class 1	K						
② Protection tube diameter	External diameter ϕ 4mm	42						
③ Coating material for protection tube	PFA		A					
④ Length of protection tube *	250mm			250				
	500mm			500				
	5000mm			5000				
⑤ Length of lead wire *	500mm			500				
	5000mm			5000				
	6000mm			5000				
⑥ Cable terminal	No terminal						W	
	Y shaped lug terminal (M3)						Y3	
	Y shaped lug terminal (M4)						Y4	
⑦ Pure water cleaning	Round shaped rug terminal (M3)						R3	
	Round shaped rug terminal (M4)						R4	
	No							N
	Pure water cleaning & Clean packing							AW


* Total length of Protection tube and lead wire should be within 10000mm (10m).

Resistance Temperature Detector

FR-100

Specification	PFA coated temperature sensor (RTD) FR-100	① ② ③ ④ ⑤ ⑥ ⑦						
		-DPA - 42- A - <input type="text"/> - <input type="text"/> -N - <input type="text"/>						
① Input type	PT100 Class A For medium temperature	DPA						
② Protection tube diameter	External diameter ϕ 4mm	42						
③ Coating material for protection tube	PFA		A					
④ Length of protection tube *	250mm			250				
	500mm			500				
	5000mm			5000				
⑤ Length of lead wire *	500mm			500				
	5000mm			5000				
	6000mm			6000				
⑥ Cable terminal	9000mm			9000				
	No terminal						N	
	No							N
⑦ Pure water cleaning	Pure water cleaning & Clean packing							AW

* Total length of Protection tube and lead wire should be within 10000mm (10m).

 Safety Warning	<ul style="list-style-type: none"> 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.

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