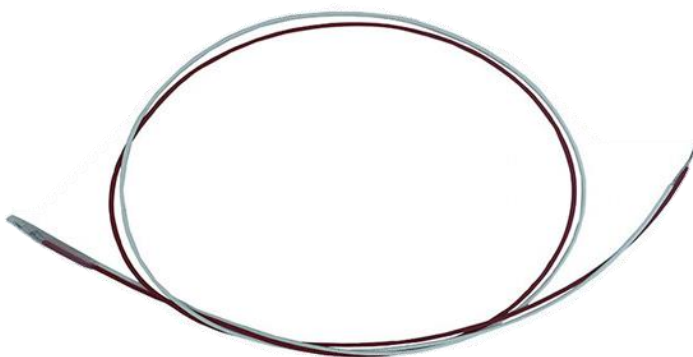


SST-RPT1000C1

RTD sensor



PRODUCTS FEATURES

- 2~200K Ω The whole series of resistance value are available (optional)
- UL1332 AWG24 wire
- White fiberglass tube – 350mm
- Operating temperature up to 200°C

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RTD sensor

1. Technical parameters

1.1 Electrical characteristics

Item	Sym.	Test conditions	Min.	Nor.	Max.	Unit
(Resistance At 0°C)	R0	Ta=0°C±0.05°C P _T ≤0.1mW	999.94	1000	1000.06	Ω
Response Time- In liquid	τ	25°C→100°C T1=25+(100-25)*63.2%=63.2°C	-	-	10	Sec
Insulation test	-	DC500 V 5sec	100	-	-	MΩ
Hi-pot test	-	3000 V AC 2mA	5			Sec

1.2 Ratings

Item	Specification	Unit
Product Working Temp.Range	-40~+200	°C

1.3 Mechanical test

Item	Pass criteria	Test conditions
Pull Test	NO loosening NO deformation	On the sensor lead 0.5 kg weight and keep at least 10 seconds
Drop Test-30mm Wire	Appearance should be no visible damage, performance test requirements	Drop on a 10mm thick wooden board from a height of 1m for 5 times
Bending test		Flex the lead wire with a force of 0.5N(0.1kg*f) to an angle of 90 deg for 3 times.

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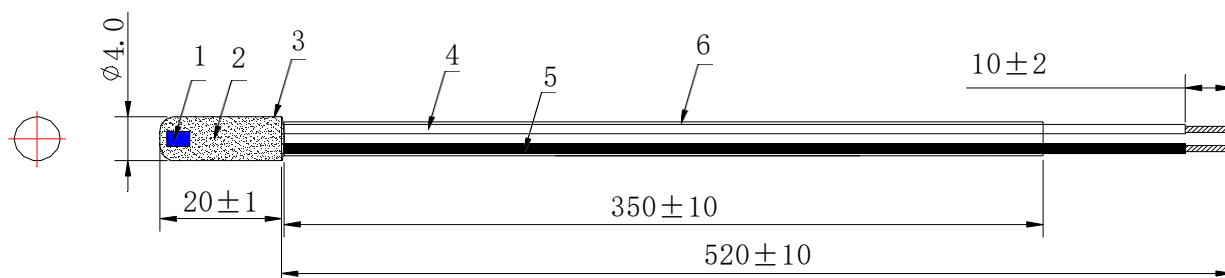
1.4 Reliability Tests

Item	Pass criteria	Test conditions
High Temperature Storage	$\Delta R/R_0 \leq \pm 1\%$ (Relative to the initial value)	100 \pm 3°C, 1000 \pm 24h Take out the product under normal recovery after 1H
low Temperature Storage		-40 \pm 3°C, 1000 \pm 24h Take out the product under normal recovery after 1H
Humidity test	$\Delta R/R_0 \leq \pm 1\%$ Relative to the initial value	40 + 2 °C, relative humidity 90% ~ 95% of the environment to place 1000 h, remove sufficient to remove surface water droplets and recovery under normal 1H
In air	$\Delta R/R_0 \leq \pm 1\%$ Relative to the initial value	Order: room 25°C, high temperature to 100 °C \pm 2°C for 10min -- room 25°C for 5min -- low - 30°C \pm 2°C for 10min -- room 25°C for 5min, circulation after 20 times, take back 1H at room temperature

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RTD sensor

2. Mechanical dimension



№	Part name	Specification description	Q, TY
1	Resistance	PT1000, B class, ($R_0 = 1000\Omega \pm 0.3^\circ\text{C}$)	1 pcs
2	Epoxy	High temperature epoxy resin	-
3	The shell	$\Phi 4.0 \times 20$ Stainless steel shell	1 pcs
4	The wire	UL1332 AWG24 200°C 300V White wire	1 pcs
5	The wire	UL1332 AWG24 200°C 300V Black wire	1 pcs
6	Tube	White Fiberglass Sleeving 350mm	1 pcs

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RTD sensor

3. Product use conditions and the matters needing attention

- 1) The maximum service temperature of product use, the maximum power to wait, all in accordance with the specification requirements homework, shall not exceed the scope of specification
- 2) Product mobile, installation must be handled with care not pulling force, attention to protect the head NTC resistance
- 3) Cap occur deformation, oxidation etc. Phenomenon, do not use, so as not to affect the temperature accuracy.
- 4) Product appearance found deformation, breakage, do not use, lest affect performance
- 5) Avoid from exceeding radical temperature change, which is beyond operation temperature range
- 6) Do not add excessive vibration shocking pressure
- 7) Avoid from excessive pulling and bending of the lead wire
- 8) Do not use in corrosiveness gas atmosphere (CO₂, NH₃, SO_x, NO_x) beyond the designated condition.) Do not use at the place where the sensor touches the electrolytic, brine, acid, alkaline and organic solvent beyond the designated condition.
- 9) As far as possible avoid using in water, high humidity and other have rot environment.
- 10) Through the negative temperature coefficient temperature sensor current will cause element own fever and produce measurement error, therefore need before use this factor into consideration
- 11) Product storage time more than a year, in order to ensure the use of normal and precision is not affected, recommends testing after put into use.
- 12) If there is anything remaining unclear, please contact to our company's sales supervisor/engineer