

HQ0057 RTD PT1000 Temperature Probe

Description

The sensing element of the HQ0057 temperature sensor is platinum metal. It has an extremely predictable change in resistance as the temperature changes, which can be used to accurately and reliably determine temperature. The HQ0057 has been widely used to measure the temperature of air, soil or water in contact with the probe tip.



Features

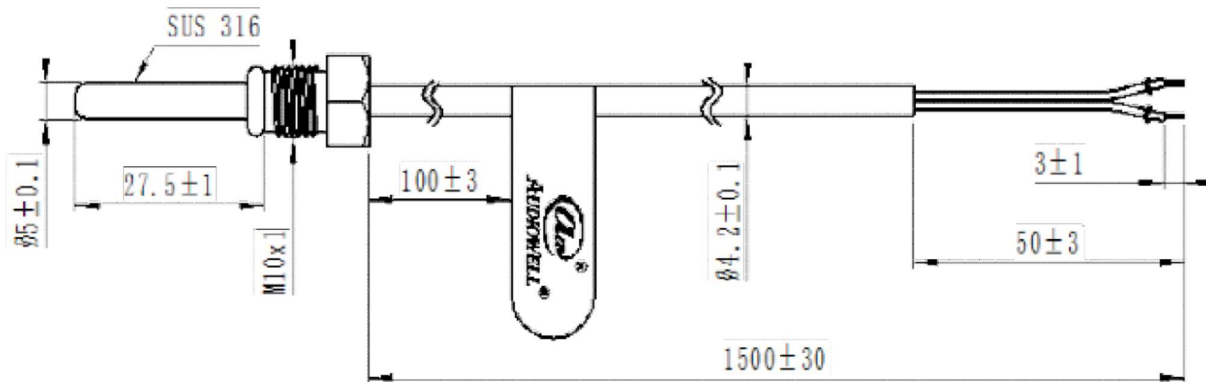
- Stable Performance
- High Reliability

Ordering Part Number: HQ0057-000

Specifications

No.	Item	Specification	Notes
1	Operating Temperature Range	0°C - 105°C	
2	Storage Temperature Range	-25°C to +105°C	
3	Nominal Resistance value (R0)	1000Ω	
4	Tolerance class	Class B (IEC 60751)	Resistance Range at 30°C: 1114.98Ω to 1118.48Ω
			Resistance Range at 60°C: 1230.11Ω to 1234.73Ω
			Resistance Range at 90°C: 1344.21Ω to 1349.93Ω
5	Accuracy	±0.38Ω	Resistance error at 30°C, 60°C, and 90°C
6	Matching precision	0.1°C Max.	Maximum temperature difference of matched pair as shipped from factory.
7	Insulation resistance	100 MΩ Min.	Insulation resistance tester Charging time 60s at 100 VDC
8	Material of protection tube	SUS316	

Appearance & Dimensions (mm)



Notes:

1. The specification and dimension of both sensors in one matched pair is the same. One is marked with a red label and the other with a blue label.
2. All the material is RoHS compliance. The temperature-sensing element type is PT1000, which is IEC 60751 compliant.
3. The sensors have been matched during manufacture at the factory and should be used in the pairs as which they are shipped. if one of the sensors is damaged, please don't match the sensor by yourself.
4. To avoid the failure or performance degradation, please don't use the sensor under the conditions as listed below:
 - a. Strong impact or vibration
 - b. Soluble organic matter environment.

Revision History

Revision Number	Revision Date	Description	Pages Changed
A1	11/15/2019	First Release Version	

Contacts

For pricing, delivery, and detailed ordering information please contact:

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Tentative Release

This specification is based on design objectives and is strictly Preliminary and subject to change. Test data may exist, but this specification is subject to change based on the results of additional testing and evaluation. Application specific specifications will be produced for approval prior to production product being released.

 **WARNING**

This product can expose you to chemicals including Lead, Chromium (hexavalent compounds) and Phthalates (DEHP) which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov