

TECHNOLOGY

HOLYKELL®

HTS 300 Series
TEMPERATURE
• DATASHEET •

1. Pressure Measurement 2. Level Measurement **3. Temperature Measurement**
4. Flow Measurement 5. Display & Control Instruments

HTS300 Series Temperature Sensor

thermal resistor/thermocouple

Application

- *Thermal power plant
- *Pipeline temp measurement
- *Boiler
- *Laboratory temp testing
- *Food industry
- *Medical industry
- *Ceramic Manufacturing
- *Industrial temp control
- *Household temp measuring



Features

- *Accuracy: $\leq 0.3\%$
- *-50-300°C wide temp range
- *Strong corrosion resistance
- *Strong vibration resistance
- *High measurement accuracy
- *Small size and good performance
- *High mechanical strength
- *Fast thermal response

Customized Service

Customized Service	
Terminal	U type/Pin type/Aviation type
Cable	PVC/Silicone/Teflon
Connection	2-wire/3-wire/4-wire/optional

Profile

Thermal resistance and thermocouple are both temperature sensors. Among them, the thermal resistor is commonly used in the low temperature area. Thermal resistance is based on the characteristic that the resistance value of a metal conductor increases with increasing temperature. While thermocouple directly measures the temperature and converts the temperature signal into a thermoelectromotive force signal through an electrical instrument (secondary instrument).

HTS300 series uses Germany imported Heraus chips to provide stable and accurate measurements. The temperature measuring probe is made of high-quality 304 stainless steel, which is superior in wear resistance, oil resistance and waterproof performance. At the same time, use waterproof epoxy resin for sealing treatment to prevent leakage.

Holykell also provides various selective connection terminals, probe process and other customized services to meet different customer needs.

Specification

Product **HTS300 Series**

Temp Range -200~600°C (thermal resistor) / -40-1200°C (K type) 0-1800°C, (B type)

Accuracy 0.1%, 0.3%, 0.5% or optional

Index Number PT100, PT1000, Cu50, Cu100 (thermal resistor) B, R, S, K, N, E, J, T(thermocouple)

Probe Length 30mm (default) 100mm, 150mm, 200mm or by customized

Diameter Φ 4mm, ϕ 2mm, ϕ 3mm, ϕ 5mm, ϕ 6mm or customized

Cable Length 1m (standard) or customized

Installation Plug-in installation

Cable Material PVC, Silicone, Teflon, PTFE

Connection 2-wire, 3-wire, 4-wire

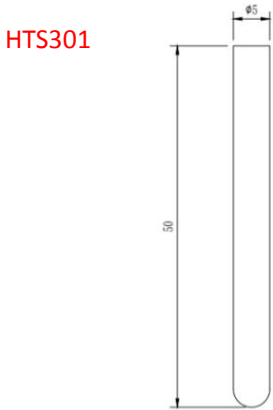
Terminals U type, Pin type, Aviation Type

Process Groove Rolling, SMD, etc.

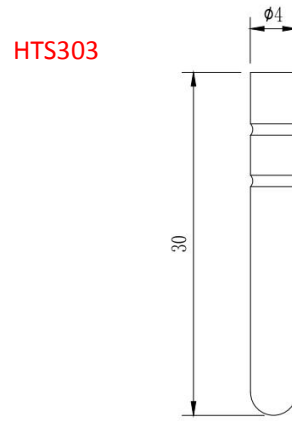
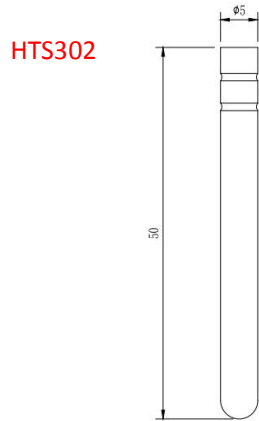
Dimensions and Drawing

Unit:mm

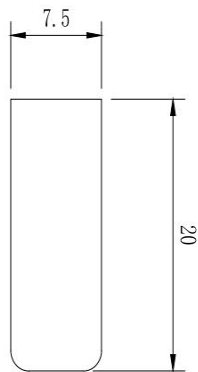
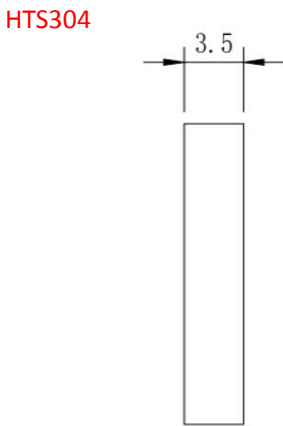
Normal Type



Double Roller Groove Type



SMD Type



Probe Diameter:

- 4mm 2mm 3mm
 5mm 6mm Customized

Probe Length:

- 10mm 20mm 30mm
 40mm 50mm Customized



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TEMPERATURE MEASUREMENT

Part Number Selection Table

HTS300 Series selection type	01	02	T1	A1	D01/L01	1	1	1	1
Process	01=Plug-in 02=Stick-up 03=SMD								
Type	Thermal resistor 01=PT100 02=PT1000 Thermocouple S、B、E、K、R、J、T								
Temperature Range	T1=-50~80 °C (HTS301) T2=-50~200°C (HTS302) T3=-50~300°C (HTS303) T4=-50~320°C (HTS304)								
Accuracy	A1=0.1%	A2=0.3%	A3=0.5%						
Probe D/L	D:01=Φ 4mm L:01=30mm	02=Φ 5mm 02=50mm	X=customized X=customized						
Cable Material	1=PVC	2=Silicone	3=Teflon						
Terminals	1= U type	2=Pin type	3=Aviation type						
Cable Length	1=1m	X=customized							
Other Selection	1=standard	2=anti-corrosion							