General Purpose

THINKING SENSOR

Feature

- High measurement accuracy with excellent moisture resistance
- Near-linear resistance–temperature characteristic for easy and reliable measurement
- Platinum element options from PT100 to PT1000
- Sensor materials, lead wires , connectors, and electrical characteristics are customizable

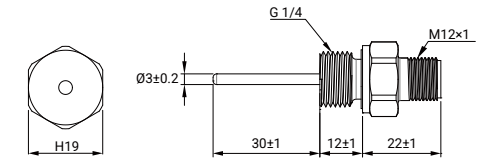
Application

- Industrial applications, including process pipeline, heat exchanger, and hydraulic oil temperature monitoring
- Liquid cooling module for battery energy storage system (BESS)
- Liquid-cooled DC fast charging station and charging cable
- Fire detection and early warning system
- Smart home appliance
- Other applications requiring high accuracy or reliable operation in harsh environment

THINKING Website

Platinum Temperature Sensor

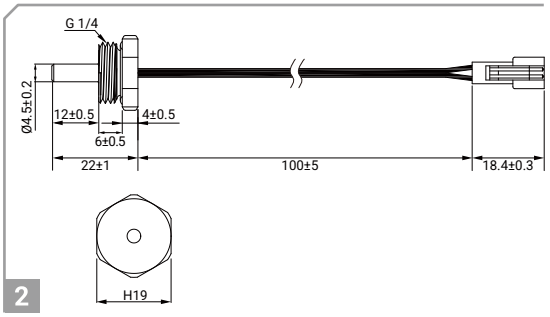
1



Feature | Stainless steel cap with G 1/4” male thread, and M12 connector (4-pin)

Operating Temperature Range | -40°C to +150°C
R Value | R0°C= 1000Ω (Class A)
Temperature Coefficient of Resistance | 3850 ppm/K
Insulation Test | DC 500V 100MΩ (Min)
Hi-Pot Test | AC 1000V 0.5mA (Max)

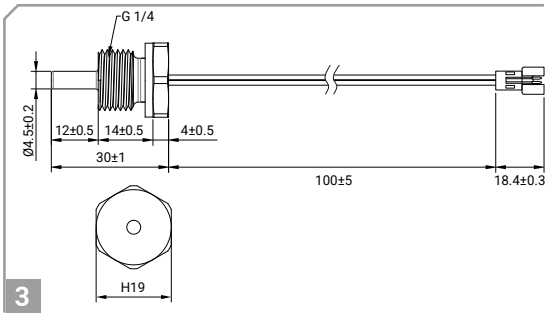
2



Feature | Stainless steel cap with G 1/4” male thread, lead wire, and connector

Operating Temperature Range | -40°C to +150°C
R Value | R0°C= 100Ω (Class A)
Temperature Coefficient of Resistance | 3850 ppm/K
Insulation Test | DC 500V 100MΩ (Min)
Hi-Pot Test | AC 1000V 0.5mA (Max)

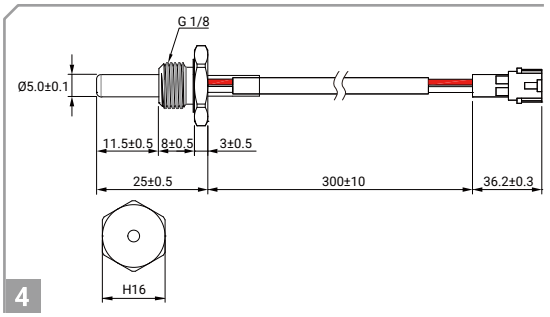
3



Feature | Stainless steel cap with G 1/4” male thread, lead wire, and connector

Operating Temperature Range | -40°C to +150°C
R Value | R0°C= 100Ω (Class A)
Temperature Coefficient of Resistance | 3850 ppm/K
Insulation Test | DC 500V 100MΩ (Min)
Hi-Pot Test | AC 1000V 0.5mA (Max)

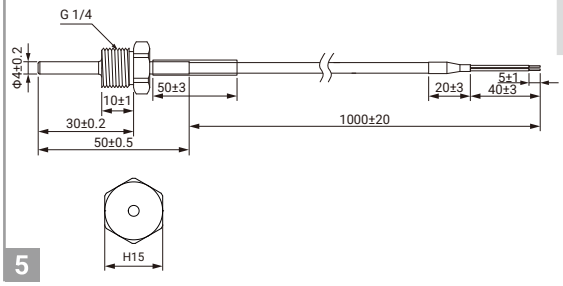
4



Feature | Stainless steel cap with G 1/8” male thread, cable, tube, and connector

Operating Temperature Range | -40°C to +150°C
R Value | R0°C = 1000Ω (Class A)
Temperature Coefficient of Resistance | 3850 ppm/K
Insulation Test | DC 500V 100MΩ (Min)
Hi-Pot Test | AC 1000V 0.5mA (Max)

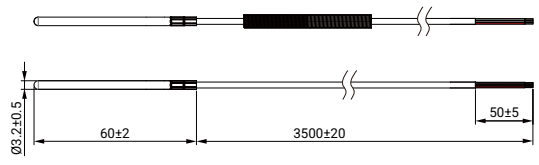
5



Feature | Stainless steel cap with G 1/4” male thread, cable, and tube

Operation Temperature Range | -40°C to +150°C
R Value | R0°C=1000Ω (Class B)
Temperature Coefficient of Resistance | 3850 ppm/K
Insulation Test | DC 500V 100MΩ (Min)
Hi-Pot Test | AC 1000V 0.5mA (Max)

6

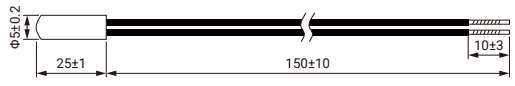


Feature | Stainless steel tube with cable

Operating Temperature Range | -40°C to +150°C
R Value | R0°C= 1000Ω (Class B)
Temperature Coefficient of Resistance | 3850 ppm/K
Insulation Test | DC 500V 100MΩ (Min)
Hi-Pot Test | AC 1000V 0.5mA (Max)

Dimensions in mm

Platinum Temperature Sensor



7

Feature | Stainless steel tube with lead wire

Operation Temperature Range | -40°C to +150°C
R Value | R0°C=1000Ω (Class 2B)
Temperature Coefficient of Resistance | 3750 ppm/K
Insulation Test | DC 500V 100MΩ (Min)
Hi-Pot Test | AC 1500V 10mA (Max)

8

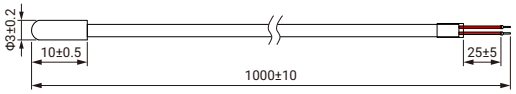
Feature | Stainless steel tube with lead wire

Operation Temperature Range | -40°C to +150°C
R Value | R0°C=1000 (Class B)
Temperature Coefficient of Resistance | 3850 ppm/K
Insulation Test | DC 500V 100MΩ (Min)
Hi-Pot Test | AC 3500V 10mA (Max)

9

Feature | Stainless steel tube with cable

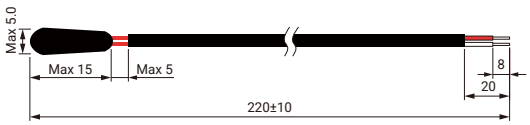
Operation Temperature Range | -40°C to +150°C
R Value | R0°C=100Ω (Class B)
Temperature Coefficient of Resistance | 3850 ppm/K
Insulation Test | DC 500V 100MΩ (Min)
Hi-Pot Test | AC 2500V 10mA (Max)



10

Feature | Stainless steel tube with cable

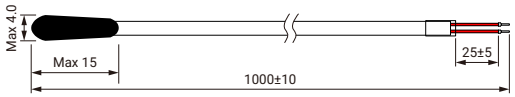
Operation Temperature Range | -40°C to +150°C
R Value | R0°C=100Ω (Class B)
Temperature Coefficient of Resistance | 3850 ppm/K
Insulation Test | DC 500V 100MΩ (Min)
Hi-Pot Test | AC 500V 0.5mA (Max)



11

Feature | Epoxy coated sensing top with cable

Operation Temperature Range | -40°C to +150°C
R Value | R0°C=1000Ω (Class 2B)
Temperature Coefficient of Resistance | 3850 ppm/K
Insulation Test | DC 500V 100MΩ (Min)
Hi-Pot Test | AC 3500V 10mA (Max)



12

Feature | Epoxy coated sensing top with cable

Operation Temperature Range | -40°C to +150°C
R Value | R0°C=100Ω (Class B)
Temperature Coefficient of Resistance | 3850 ppm/K
Insulation Test | DC 500V 100MΩ (Min)
Hi-Pot Test | AC 500V 0.5mA (Max)

Dimensions in mm