

General Purpose

THINKING
SENSOR

General Purpose



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

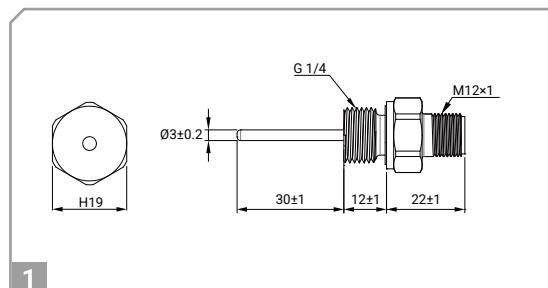
Application

- 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)

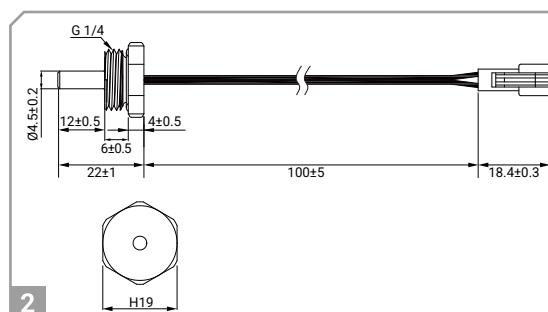
Operating Temperature Range | -40°C to +150°C

R Value | $R_{0^\circ\text{C}} = 1000\Omega$ (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

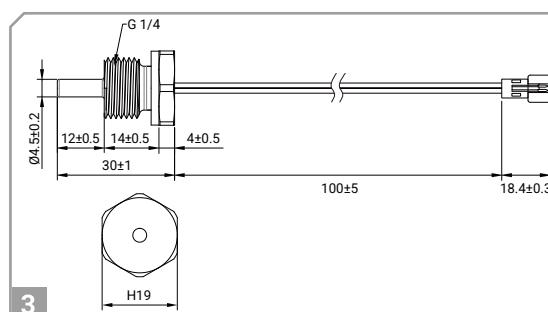
Operating Temperature Range | -40°C to +150°C

R Value | $R_{0^\circ\text{C}} = 100\Omega$ (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

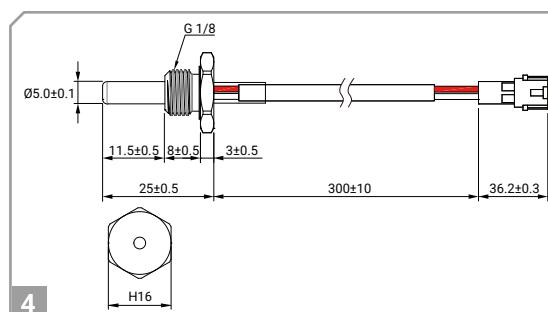
Operating Temperature Range | -40°C to +150°C

R Value | $R_{0^\circ\text{C}} = 100\Omega$ (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

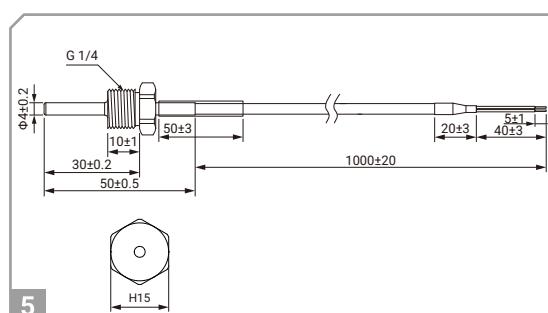
Operating Temperature Range | -40°C to +150°C

R Value | $R_{0^\circ\text{C}} = 1000\Omega$ (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

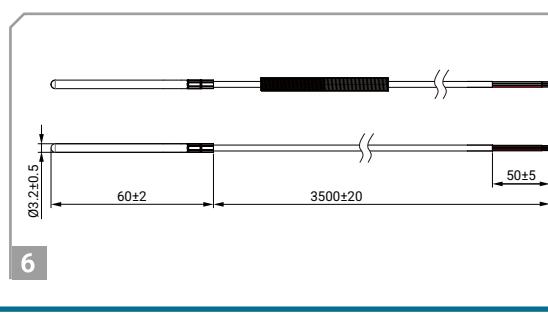
Operation Temperature Range | -40°C to +150°C

R Value | $R_{0^\circ\text{C}} = 1000\Omega$ (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 | $R_{0^\circ\text{C}} = 1000\Omega$ (Class B)

Temperature Coefficient of Resistance | 3850 ppm/K

Insulation Test | DC 500V 100MΩ (Min)

Hi-Pot Test | AC 1000V 0.5mA (Max)

Platinum Temperature Sensor



7

Feature | Stainless steel tube with lead wire

Operation Temperature Range | -40°C to +150°C

R Value | $R0^{\circ}\text{C}=1000\Omega$ (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 | $R0^{\circ}\text{C}=1000$ (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

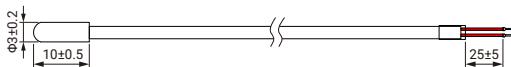
Operation Temperature Range | -40°C to +150°C

R Value | $R0^{\circ}\text{C}=100\Omega$ (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 | $R0^{\circ}\text{C}=100\Omega$ (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 | $R0^{\circ}\text{C}=1000\Omega$ (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 | $R0^{\circ}\text{C}=100\Omega$ (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