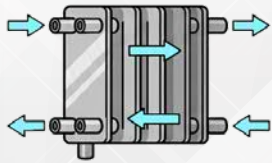
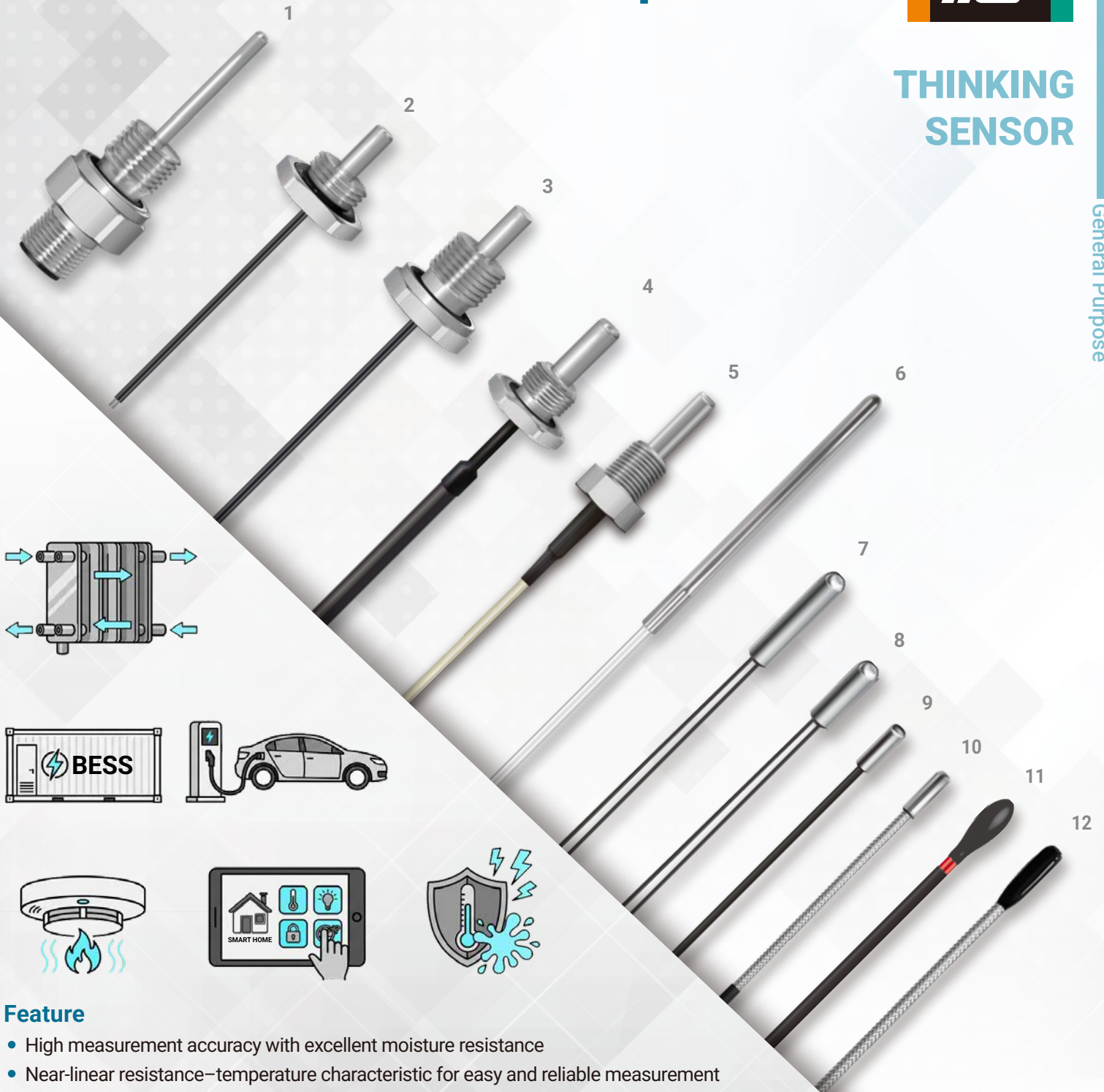


# General Purpose



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

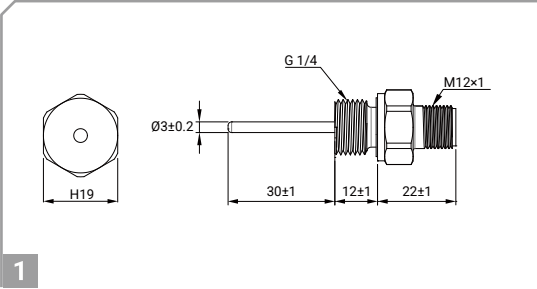
## Application

- 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



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

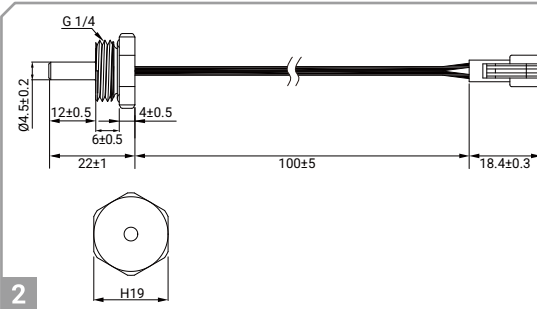
**Operating Temperature Range** | -40°C to +150°C

**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)



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

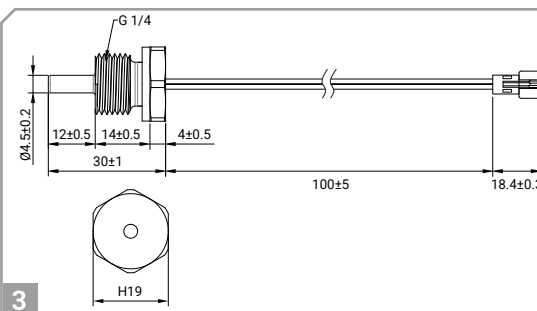
**Operating Temperature Range** | -40°C to +150°C

**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)



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

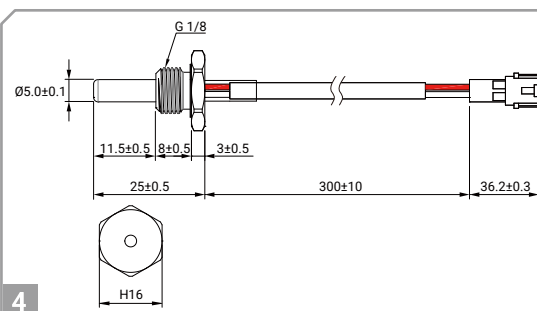
**Operating Temperature Range** | -40°C to +150°C

**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)



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

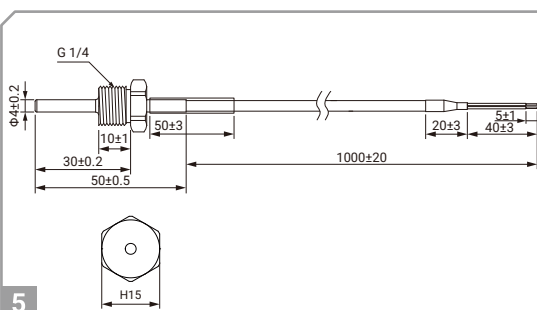
**Operating Temperature Range** | -40°C to +150°C

**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)



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

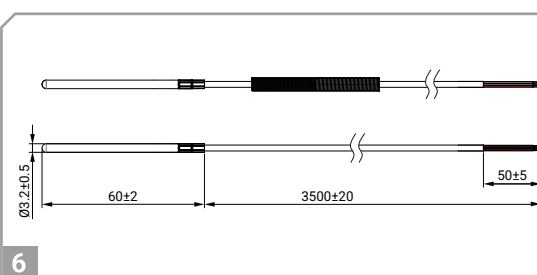
**Operation Temperature Range** | -40°C to +150°C

**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)



**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)

# Platinum Temperature Sensor



7

**Feature** | Stainless steel tube with lead wire

**Operation Temperature Range** |  $-40^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$

**R Value** |  $R_{0^{\circ}\text{C}}=1000\Omega$  (Class 2B)

**Temperature Coefficient of Resistance** | 3750 ppm/K

**Insulation Test** | DC 500V 100M $\Omega$  (Min)

**Hi-Pot Test** | AC 1500V 10mA (Max)



8

**Feature** | Stainless steel tube with lead wire

**Operation Temperature Range** |  $-40^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$

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

**Temperature Coefficient of Resistance** | 3850 ppm/K

**Insulation Test** | DC 500V 100M $\Omega$  (Min)

**Hi-Pot Test** | AC 3500V 10mA (Max)



9

**Feature** | Stainless steel tube with cable

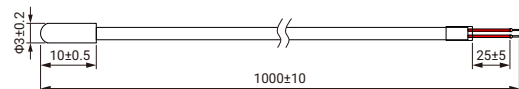
**Operation Temperature Range** |  $-40^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$

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

**Temperature Coefficient of Resistance** | 3850 ppm/K

**Insulation Test** | DC 500V 100M $\Omega$  (Min)

**Hi-Pot Test** | AC 2500V 10mA (Max)



10

**Feature** | Stainless steel tube with cable

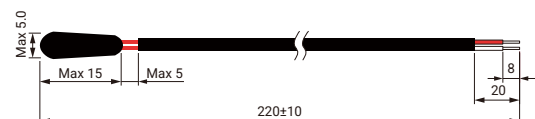
**Operation Temperature Range** |  $-40^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$

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

**Temperature Coefficient of Resistance** | 3850 ppm/K

**Insulation Test** | DC 500V 100M $\Omega$  (Min)

**Hi-Pot Test** | AC 500V 0.5mA (Max)



11

**Feature** | Epoxy coated sensing top with cable

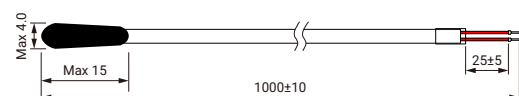
**Operation Temperature Range** |  $-40^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$

**R Value** |  $R_{0^{\circ}\text{C}}=1000\Omega$  (Class 2B)

**Temperature Coefficient of Resistance** | 3850 ppm/K

**Insulation Test** | DC 500V 100M $\Omega$  (Min)

**Hi-Pot Test** | AC 3500V 10mA (Max)



12

**Feature** | Epoxy coated sensing top with cable

**Operation Temperature Range** |  $-40^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$

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

**Temperature Coefficient of Resistance** | 3850 ppm/K

**Insulation Test** | DC 500V 100M $\Omega$  (Min)

**Hi-Pot Test** | AC 500V 0.5mA (Max)