



TEMPERATURE MONITORING IN HAZARDOUS WASTE INCINERATION

Thermocouples and temperature sensor solutions



TEMPERATURE MONITORING IN HAZARDOUS WASTE INCINERATION

Accurate temperature monitoring is essential in hazardous waste incineration to ensure complete destruction of complex and potentially toxic materials, while meeting stringent environmental and regulatory requirements. Hazardous waste streams often demand combustion temperatures above 1,100°C, making reliable measurement critical for safe, controlled, and compliant operation.

With over 25 years of experience, Peak Sensors supplies high-performance thermocouples engineered for the demanding conditions of hazardous waste incinerators. We understand the challenges of processing diverse chemical wastes, maintaining stable furnace conditions, and generating dependable data for strict emissions reporting.

Our robust thermocouples and specialist probes are designed to withstand extreme temperatures, corrosive and chemically aggressive gases, and continuous heavy-duty operation. We work closely with plant operators and equipment manufacturers to deliver both standard and custom-designed sensor solutions that enhance process performance, equipment reliability, and operational safety.

A LITTLE MORE ABOUT US:

Peak Sensors is a **temperature sensor specialist** that designs, manufactures, and supplies temperature sensor probes worldwide. We are **UK manufacturers based in Chesterfield, Derbyshire**, and have been manufacturing sensors since 1997, making thermocouples to support your process control.

THERMOCOUPLES FOR HAZARDOUS WASTE INCINERATION

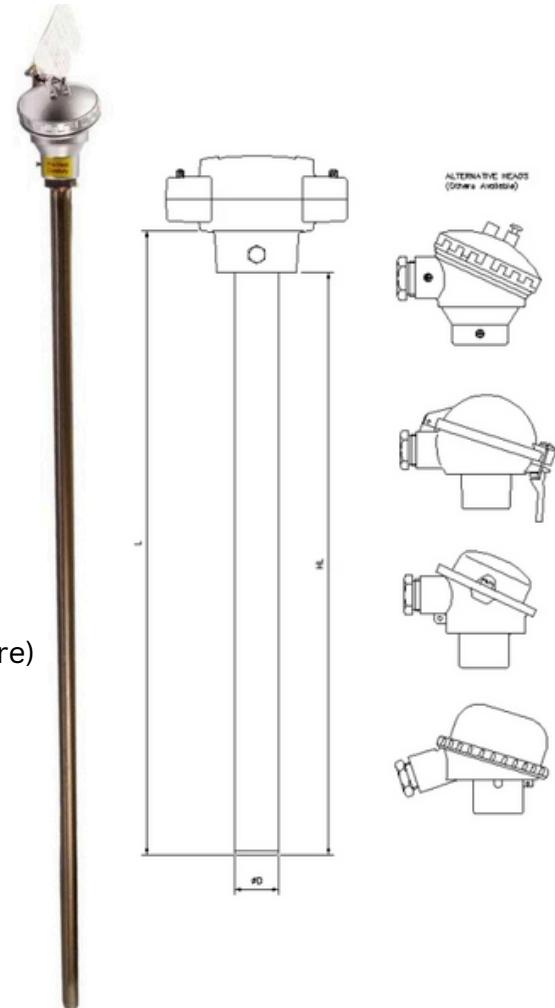
Rare Metal Thermocouple With Metal Sheath

A tough design rare metal sensor for use in high-temperature aggressive environments.

Type Designation: RMM

Specifications:

- ▶ 0 to 1700°C temperature range
- ▶ Common sensor types: R, S, B
- ▶ Common Sheath Size : (ØD) Ø 6.0 to 26.7mm (3/4" nominal bore)
- ▶ Common Element Diameters: Ø 0.15mm to 0.5mm
- ▶ Head options: ALA, KNE (IP6), BUZ



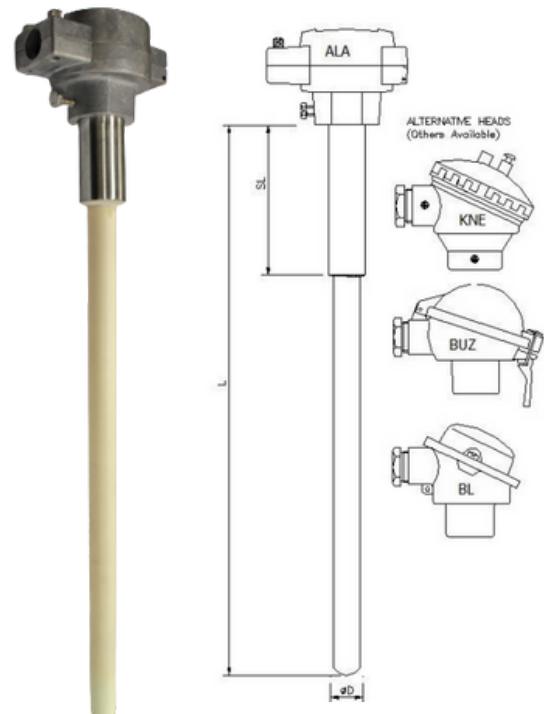
High Temperature Thermocouple With Ceramic Sheath

This particular design of rare metal thermocouple is a very common temperature sensor that we regularly supply to high-temperature industries.

RMC (High Temperature Thermocouple With Ceramic Sheath)

Specifications:

- ▶ 0 to 1700 °C temperature range
- ▶ Common sensor types: R, S, B
- ▶ Common Sheath Size: Ø 6.0, 8.0, 10.0, 12.0, 15.0, 17.0, 20.0, 25.0, 28.0mm
- ▶ Common Element Diameters: Ø 0.15mm to 0.5mm
- ▶ Shank material: (SL) Plated MS, stainless steel , chrome iron, alloy 600.
- ▶ Head options: ALA, KNE (IP68), HR AL BL (flip top), many others



THERMOCOUPLES FOR HAZARDOUS WASTE INCINERATION

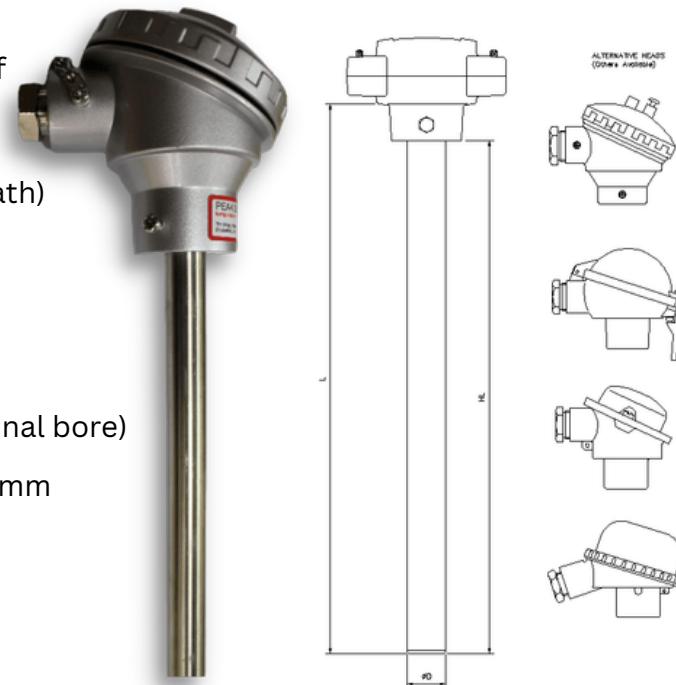
Base Metal Thermocouple Assembly With Metal Sheath

The Base Metal Thermocouple Assembly with Metal Sheath is protected by a stainless or metal alloy sheath. This type of design is used in incinerators. The sensor has a high level of robustness.

BMM (Base Metal Thermocouple Assembly with Metal Sheath)

Specifications:

- ▶ -200 to 1200 °C temperature range
- ▶ Common sensor types: K, N
- ▶ Common Sheath Size: (ØD) Ø 6.0 to 26.7mm (3/4" nominal bore)
- ▶ Common Element Diameters: 11 SWG, 16 SWG and Ø 6mm mineral insulated
- ▶ Head options: KNE, ALA (IP68)



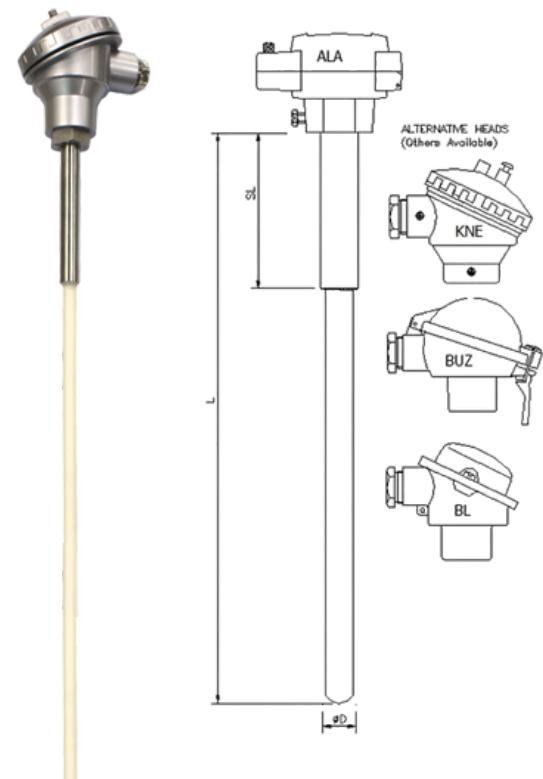
Base Metal Thermocouple Assembly With Ceramic Sheath

The Base Metal Thermocouple Assembly with Ceramic Sheath is protected by a ceramic sheath. This type of design is used in incinerators. The sensor has a high level of robustness.

BMC (Base Metal Thermocouple Assembly with Ceramic Sheath)

Specifications:

- ▶ -200 to 1300 °C temperature range
- ▶ Common sensor types: K, N
- ▶ Common Sheath Size: (ØD) Ø15.8mm
- ▶ Common Element Diameters: Ø 1.63mm
- ▶ Head options: KNE, ALA (IP68)





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