TEMPERATURE CONTROL IN ENERGY FROM WASTE

Thermocouples and temperature sensor solutions

PEAK SENSORS
temperature measurement & control

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Precise temperature monitoring and control are critical in Energy-from-Waste plants to ensure stable combustion, maximise energy recovery, and meet strict environmental regulations. EfW facilities often operate above 850–1,100°C to guarantee complete thermal treatment of mixed municipal waste streams, making reliable measurement essential for safe, efficient, and compliant operation.

With over 25 years of experience, Peak Sensors supplies high-performance thermocouples engineered specifically for the Energy-from-Waste sector. We understand the challenges of handling highly variable waste compositions, maintaining consistent furnace conditions, and achieving optimal thermal efficiency.

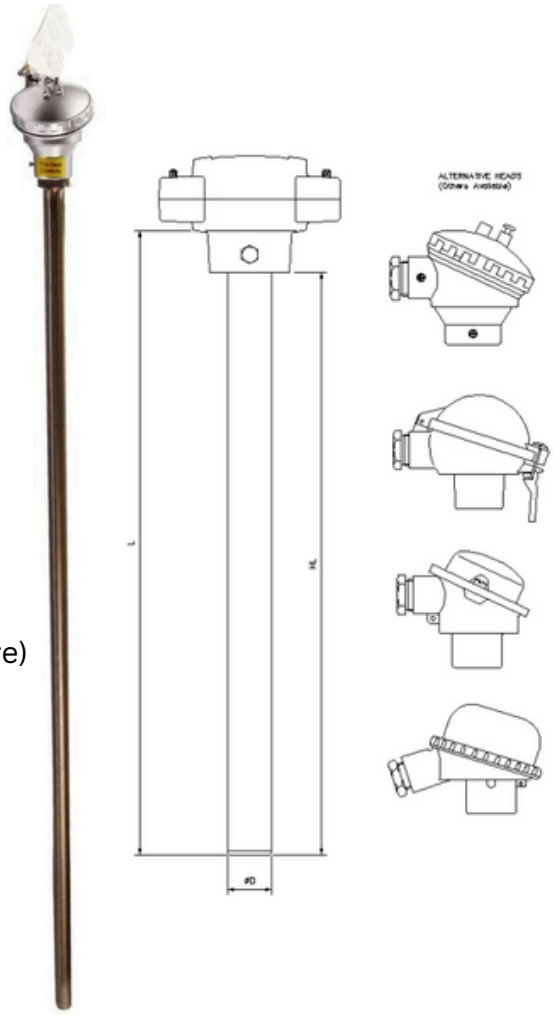
Our durable thermocouples and specialist probes are designed to withstand extreme temperatures, abrasive particulates, and aggressive environments. We work closely with plant operators and technology providers to deliver both standard and custom-designed sensor solutions that improve process stability, enhance equipment lifespan, and support the continued evolution of EfW technologies.

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.

Rare Metal Thermocouple With Metal Sheath

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



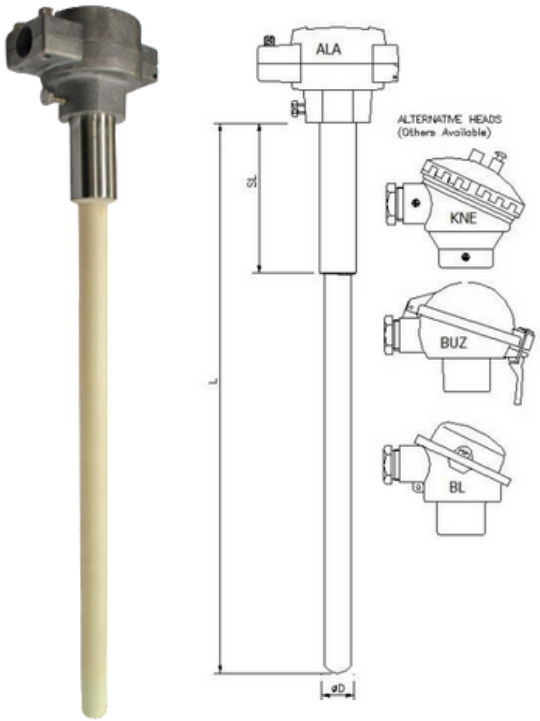
Type Designation: RMM

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.



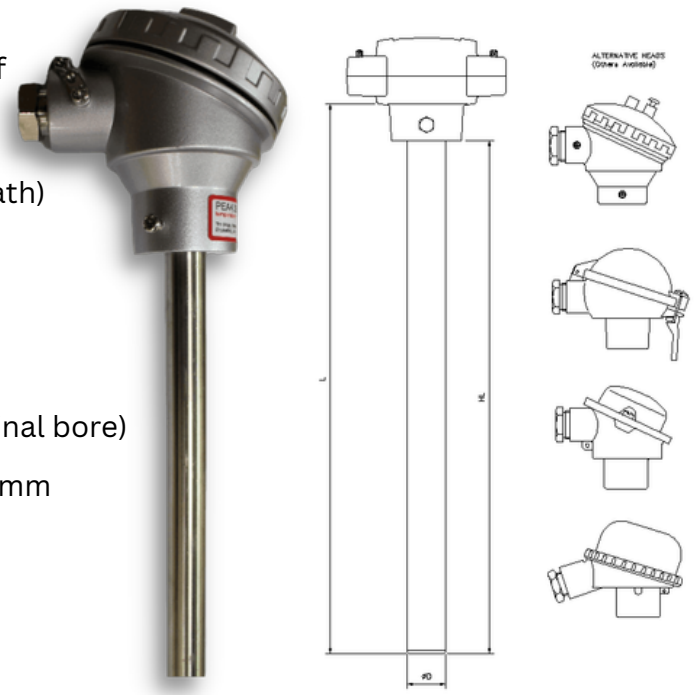
RMC (High Temperature Thermocouple With Ceramic Sheath)

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

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.



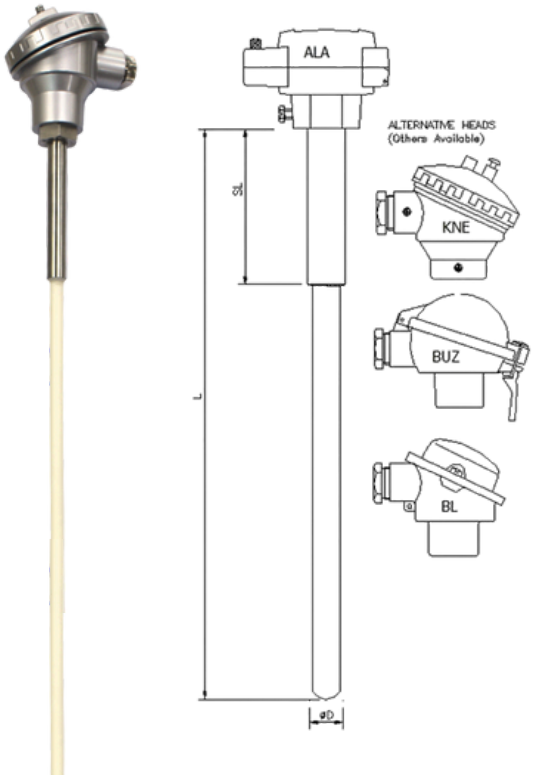
BMM (Base Metal Thermocouple Assembly with Metal Sheath)

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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