

Daily Premium™ Line

Daily Premium™ thermocouple featuring patented CatTracker® Technology, manufactured and offered exclusively by Daily Thermetrics

Where the tightest process control is critical, accuracy of instrumentation is paramount. Daily Premium™ thermocouples provide accuracy and precision that is up to 4x that of standard limits of error, giving engineers and operators superior control for maximizing safety and throughput within refineries. This proprietary technology is exclusively available from Daily Thermetrics, and is derived from the patented and certified SIL 3 capable CatTracker® technology.



| PERFORMANCE ADVANTAGES | NON-DAILY MINERAL-INSULATED THERMOCOUPLE | DAILY STANDARD MINERAL-INSULATED THERMOCOUPLE | DAILY PREMIUM™ MINERAL-INSULATED THERMOCOUPLE |
|------------------------|--|---|--|
| Accuracy (Type 'K') | Available in Standard & Special Limits | Special Limits ¹ | Ultra Limits™ Greater of $\pm 1^\circ\text{F}$ or $\pm 0.25\%$ |
| Precision (Type 'K') | No Requirements | No Requirements | $\pm 1^\circ\text{F}^2$ |
| Drift Mitigation | None | Yes | Anti-Drift Technology™ |
| Life | - | Up to 2x Non-Daily Thermocouple ³ | Up to 3-5x Non-Daily Thermocouple ³ |

| MANUFACTURING SPECIFICATIONS | NON-DAILY MINERAL-INSULATED THERMOCOUPLE | DAILY STANDARD MINERAL-INSULATED THERMOCOUPLE | DAILY PREMIUM™ MINERAL-INSULATED THERMOCOUPLE |
|------------------------------|---|---|--|
| Insulation Compaction | 70% | 70% min | 90% min |
| Insulation Resistance (min) | Grounded Junctions - Unknown Ungrounded Junctions - 1 GΩ | $\geq 10 \text{ G}\Omega$ | $\geq 20 \text{ G}\Omega^4$ |
| Transition Housing | Crimped Housing | Silver-Braced Housing with Vacuum Cure | Silver-Braced Housing with Ralexian™ Technology ⁵ |

1. Daily Thermetrics' U.S. and worldwide patents include USPN 8,870,455; USPN 6,599,011; USPN 6,550,963; CA 2,848,398; and CA 2,449,074. Additional patents are pending.

1. Except when raw material is not available.

2. Within Manufactured Lot.

3. In applicable installations.

4. Not including lead wire. Lead wire IR may vary.

5. Ralexian™ Transition Housing is a Daily Thermetrics proprietary moisture seal. It comes standard on all CatTracker® Probes and on the Daily Premium™ Line thermocouples with housings. The seal is function tested at extreme conditions to ensure a proper transition housing moisture seal is achieved. Only available on standard style transition housings (not including flush design).

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