

Thermocouple-Based Thermometer

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The Type-K Workhorse Thermometer provides a sharp readout in dim and very bright light, long battery life (150 to 200 continuous hours), high accuracy, wide temperature range, and a new chip design for an ultra low cost. Its range is -58 to +2,372°F and -50 to +1,300°C. Resolution is 0.1° between -50 and 200 and 1° elsewhere. Meter accuracy is $\pm(1^{\circ}\text{C} + 0.75\%)$ between 0 and 500°C; $\pm(1^{\circ}\text{C} + 1\%)$ 500 to 750°C; $\pm(1^{\circ}\text{C} + 2\%)$ 750 to 1,000°C; $\pm(3^{\circ}\text{C} + 4\%)$ 1,000 to 1,200°C; $\pm 2^{\circ}\text{C}$ at -20; $\pm 3^{\circ}\text{C}$ at -40; and $\pm 4^{\circ}\text{C}$ at -50. Recessed front-panel adjustable offset allows the user to adjust thermometer exactly to a specific temperature, in-house calibration, or a particular sensor for increased accuracy. A "Hold" button freezes the display to capture the current reading. It is compatible with all Type-K probes. An individually serial-numbered Traceable Certificate indicates traceability to standards provided by NIST.

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