Instrumentation

Thermocouple Monitors

Portable 6-Station Temperature Monitor

Design Features

- Thermocouple calibrations available are K, or J linearized in four sections for good accuracy.
- RTD Cold Junction compensates accurately for ambient temperature changes as fast as 2°/min.
- High Impedance Circuit allows use of probes with up to 1000 ft. of 24 ga. wire; several transformer-isolated monitors can connect to the same probe.
- 1/2” High LCD Display is sunlight readable.
- Powered by 9V alkaline “transistor” battery.
- Durable Rotary Selector for displaying 6 thermocouple inputs.
- Large Pointer Selector Knob clearly indicates the monitored location.
- Polymer-Coated Circuit will perform indefinitely even in high humidity environments.
- Made in the United States and warranted against material or workmanship defects for 1 year.

Specifications

Display Range: –199 to 1999 °F or °C
Measuring Accuracy: ±1/2% of reading ±1°
Ambient Oper. Temp.: –5° to 140°F (–21° to 60°C)
Relative Humidity: 90% max., non-condensing
Cold Junction Offset: 1° max. for 32° to 110°F (0° to 43°C)
Display Updates: 3 times per second
LCD Height: 0.5” (12.7 mm) high
Construction: High-density polyethylene case, aluminum panel with meter and miniature thermocouple jacks
Dimensions: 12” x 8” x 3”
Power Requirement: 9 Vdc (9V “transistor” alkaline battery)
Weight: 2.0 lb. (0.9 kg.)

DISPLAY RANGE

<table>
<thead>
<tr>
<th>Thermocouple Type</th>
<th>Min. °F</th>
<th>Max. °F</th>
<th>Min. °C</th>
<th>Max. °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>J-Fe/Constantan</td>
<td>–60</td>
<td>1400</td>
<td>–50</td>
<td>750</td>
</tr>
<tr>
<td>K-Chromel™/Alumel™</td>
<td>–60</td>
<td>1999</td>
<td>–50</td>
<td>1100</td>
</tr>
</tbody>
</table>

Multi-Station Portable Thermocouple Monitor

These thermocouple monitors were designed to assist field technicians with testing or calibrating HVAC/refrigeration systems, baking/curing ovens, motors, engines, and much more. Instant response circuits allow a technician to compare up to 6 temperature probes quickly.

These circuits have been optimized to deliver accuracy and stability over a wide environmental range. The durable carrying case is compact and features a compartment for storing wire and probes.

Ordering Information

Choose the Part Number of the Temperature Monitor that best fits the needs of your application.

A 120 Vac model (with optional LED display) is available; please consult Tempco for order information.

Standard lead time is stock to 3 weeks.