The UPT1000 Digital Hand-Held Universal Thermocouple - Process Indicator is a microprocessor based precision general-purpose thermometer and process indicator designed for use with a multitude of standard inputs. These inputs include Type J, K, T, E, R, S, B, and N Thermocouples as well as 100 ohm 2 or 3-wire Platinum RTDs, 120 ohm Nickel RTDs, and 1000 ohm Platinum 2 wire RTDs. In addition to these temperature inputs the UPT1000 is capable of measuring current inputs (4-20 mA dc) and voltage inputs (0 - 10 Vdc) making it an ideal instrument for calibrating and validating a variety of process instruments. Love Controls UPT1000 is a class leading handheld indicator offering 0.25% full-scale accuracy over thirteen common input ranges. The unit is packaged in a sturdy extruded aluminum case that will help to ensure years of service and dependability. The UPT1000 is designed and manufactured in the USA and carries a 1-year limited warranty. Also available are a soft carrying case (L402-A), and a variety of ANSI connectors and handheld temperature probes, offered in both kits or individually.

The UPT1000 is the ideal thermocouple thermometer for use in laboratories, factories, shops, and any location where accurate temperature measurement is required.

UPT1000 Digital Hand-Held Universal Thermocouple - Process Indicator

L402-A Soft Case
See Digital Thermocouple, Thermocouple Kits and Hand Held Thermocouples.

**FEATURES**
- Microprocessor Based
- Standard ANSI Mini-jack Connector
- Detachable Screw Terminals
- °F, °C, or Process Variable Descriptors Selectable
- Programmable Resolution
- Peak and Valley Indication
- 20 Minute Auto-Power Off
- Backlit Display
- High Accuracy
- Sturdy Extruded Aluminum Case
- Made in USA

**SPECIFICATIONS**

**Selectable Inputs:** Thermocouple, RTD, DC Voltage, or DC current.

**Input Impedance:** Thermocouple = 3 megohms, Current = 10 ohms, Voltage = 5000 ohms.

**RTD Excitation Current:** 200µA.

**Display:** Dual 4-1/2 digit LCD.

**Accuracy:** ±0.25% of span; ±1 least significant digit.

**Maximum Overload:** Current = 110 mA, Voltage = 25 VDC.

**Resolution:** 1 count, 1 degree or 0.1 degree selectable.

**Drift Over Temperature:** ±0.02% (200 ppm) per °C typical, ±0.05% (500 ppm) maximum.

**Memory Backup:** Non-Volatile EEPROM.

**Response Time:** 2 readings per second.

**Operating Temperature:** 32 to 104°F (0 to 40°C).

**Humidity Conditions:** 0 to 40% Non-Condensing.

**Power:** 9V battery.

**Battery Life:** 200 hours typical.

**Case Material:** Anodized aluminum with plastic end caps.

**Dimensions:** 6.8 L x 2.8 W x 0.9 D (172.7 x 71 x 22.9 mm).

**INPUTS**

<table>
<thead>
<tr>
<th>INPUT TYPE</th>
<th>RANGE °F</th>
<th>RANGE °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type J Thermocouple</td>
<td>-100 to +1600</td>
<td>-73 to +871</td>
</tr>
<tr>
<td>Type K Thermocouple</td>
<td>-200 to +2500</td>
<td>-129 to +1371</td>
</tr>
<tr>
<td>Type T Thermocouple</td>
<td>-350 to +750</td>
<td>-212 to +388</td>
</tr>
<tr>
<td>Type E Thermocouple</td>
<td>-100 to +1800</td>
<td>-73 to +862</td>
</tr>
<tr>
<td>Type R Thermocouple</td>
<td>0 to 9200</td>
<td>0 to +1780</td>
</tr>
<tr>
<td>Type S Thermocouple</td>
<td>0 to 2200</td>
<td>0 to +1200</td>
</tr>
<tr>
<td>Type B Thermocouple</td>
<td>+75 to +3300</td>
<td>+24 to +1820</td>
</tr>
<tr>
<td>Type N Thermocouple</td>
<td>-100 to +2372</td>
<td>-73 to +1300</td>
</tr>
<tr>
<td>100 Ω Pt. 0.00385 DIN RTD</td>
<td>-328 to 1607</td>
<td>-200 to +875</td>
</tr>
<tr>
<td>100 Ω Pt. 0.00392 NIST RTD</td>
<td>-328 to 1607</td>
<td>-200 to +875</td>
</tr>
<tr>
<td>120 Ω Nickel 0.00628 US RTD</td>
<td>-112 to +608</td>
<td>-80 to +320</td>
</tr>
<tr>
<td>1000 Ω Pt. 0.00385 DIN RTD</td>
<td>-328 to +1607</td>
<td>-200 to +875</td>
</tr>
</tbody>
</table>

Current/Voltage Scalable Units from -9999 to +9999.