

Digital Hand-Held Universal T/C - Process Indicator

Microprocessor Based, Programmable Resolution



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: Two 4-1/2 digit LCD.

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

Maximum Overload: Current = 110mA, Voltage = 25Vdc.

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

The Love Controls 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 mAdc) 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.

STOCKED MODELS

UPT1000 Digital Hand-Held Universal Thermocouple - Process Indicator

L402-A Soft Case

See Digital Thermocouple, Thermocouple Kits and Hand Held Thermocouples.

INPUTS

INPUT TYPE	RANGE °F	RANGE °C
Type J Thermocouple	-100 to +1600	-73 to +871
Type K Thermocouple	-200 to +2500	-129 to +1371
Type T Thermocouple	-350 to +750	-212 to +398
Type E Thermocouple	-100 to +1800	-73 to +982
Type R Thermocouple	0 to 3200	-17 to +1760
Type S Thermocouple	0 to 3200	-17 to +1760
Type B Thermocouple	+75 to +3308	+24 to +1820
Type N Thermocouple	-100 to +2372	-73 to +1300
100 Ω Plt. 0.00385 DIN RTD	-328 to 1607	-200 to +875
100 Ω Plt. 0.00392 NIST RTD	-328 to 1607	-200 to +875
120 Ω Nickel 0.00628 US RTD	-112 to +608	-80 to +320
1000 Ω Plt. 0.00385 DIN RTD	-328 to +1607	-200 to +875
Current/Voltage Scalable Units from -1999 to +9999.		