universal



enterprises

DT130 DIGITAL THERMOMETER

Operating Instructions



8030 SW NIMBUS BEAVERTON, OR 97008 (503) 644-8723

Features of the DT130:

- Ruggedized to withstand a 10 foot drop
- Membrane keypad
- · Water resistant
- Accepts K, J, and T thermocouple types
- Dual temperature range:

 -418° to 2507°F
 -250° to 1375°C

 (with K-type thermocouple)
- Data hold function
- Minimum/Maximum temperature memory
- · Relative temperature
- · Automatic recall
- · Low battery indication
- · Open probe indication
- · Keystroke confirmation beep
- Two year limited warranty

Specifications:

Ranges

J-Type: -310° to 1832°F

-190° to 1000°C

K-Type: -418° to 2507°F

-250° to 1375°C

T-Type: -418° to 752°F

-250° to 400°C

Accuracy: $\pm 0.2\%$ of rdg, ± 0.8 °F(0.4 °C) above -238 °F(-150 °C)

Differential (ΔT) accuracy: ±0.3°C Resolution: 0.1/1°F or C switchable; autoranging to 1° above 999.9°

Accessories:

Probes:

All K, J, T Type probes are acceptable. UEI Probes:

K-Type: ATT29/36/37/38/44/45/46/50

J-Type:

ATT/19/25/26/27/30/40/41/42/47/48/49 Any T-Type thermocouple probe with a standard input jack.

Rattery:

Measuring Procedures:

Temperature Measurement

 Depress the "On/Off" key on the DT130 to turn instrument on. At this time all display legends will illuminate for a short self-test period – approx. 5 seconds.

2. Depress the °F/°C key to obtain measurement in desired thermometric scale.

- The DT130 will automatically power for thermocouple Type K. To select a different thermocouple type, depress KJT key. If thermocouple selected does not match sensor being used erroneous readings will be displayed. If no thermocouple is connected the display will show "OPEN".
- 4. To select whole degree or one tenth degree resolution, depress the 1°/0.1° key. Above 999.9 degrees the DT130 automatically selects whole degree resolution.
- Following instructions for specific probe being used, proceed with temperature measurement.

Using Optional Functions:

 ΔT This function is used to determine temperature between two environments. Allow DT130 to stabilize to the ambient temperature of reference environment. Depress the ΔT button. The DT130 will display the difference in temperature of any other environment compared to the ambient. To exit from this function, depress the ΔT key again.

REC Ambient temperature is automatically stored when ΔT key is depressed. To recall that temperature depress REC key.

MAX/MIN Depress the MAX/MIN key to display first the maximum and then minimum temperature recorded since DT130 was turned on or since CLR key was last operated. Five seconds after depressing the MAX/MIN key the display will return to the current temperature reading.

CLR To reset maximum and minimum memories, depress the CLR key.

D-H Depress D-H key to freeze a reading

Battery Replacement

- Remove six screws around perimeter of back casing and remove gently.
- Replace 9V battery observing correct polarity.
- Replace back casing and screws.

Returning for Repair

Before returning your instrument for repair, make a quick check to insure the failure is not due to the following: Low or dead battery, defective probe.

Limited Two Year Warranty

This product is warranted to purchaser against defects in material and workmanship for two year from date of purchase. What is covered: Repair parts and labor, or replacement at the company's option. Transportation charges to the purchaser. What is not covered: Transportation charges to the company. Damages from abuse or improper maintenance, see operating instructions. Any other expense. Consequential damages, incidental damages, or incidental expenses, including damages to property. Some states do not allow exclusion or limitation of incidental

Obtaining Warranty Performance:

Attach to the product your name, address, description of problem, phone number and proof of date of purchase. Package and return to:

Service Center UEI 5500 SW Arctic Drive Beaverton, OR 97005

Implied Warranties:

Any implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to two year from date of purchase. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to your. To the extent any provision of this warranty is prohibited by federal and state law and cannot be preempted, it shall not be applicable. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Quality, Price & Service

that make a world of difference...

Measuring/Testing Equipment (Analog & Digital)

- Watt Motors
- Transformers
- Relays
- Thermometers (Bi-metal & Glass)
- Remote Reading
 Thermometers
 (Analog & Digital)

Caution

To eliminate possibility of injury to operator and damage to the instrument and equipment, the following procedure is recommended. Exercise care and caution on all ranges, particularly the voltage ranges, and follow all standard published safety rules. Misuse, abuse and carelessness cannot be prevented by any written word and is fully the operator's responsibility.



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