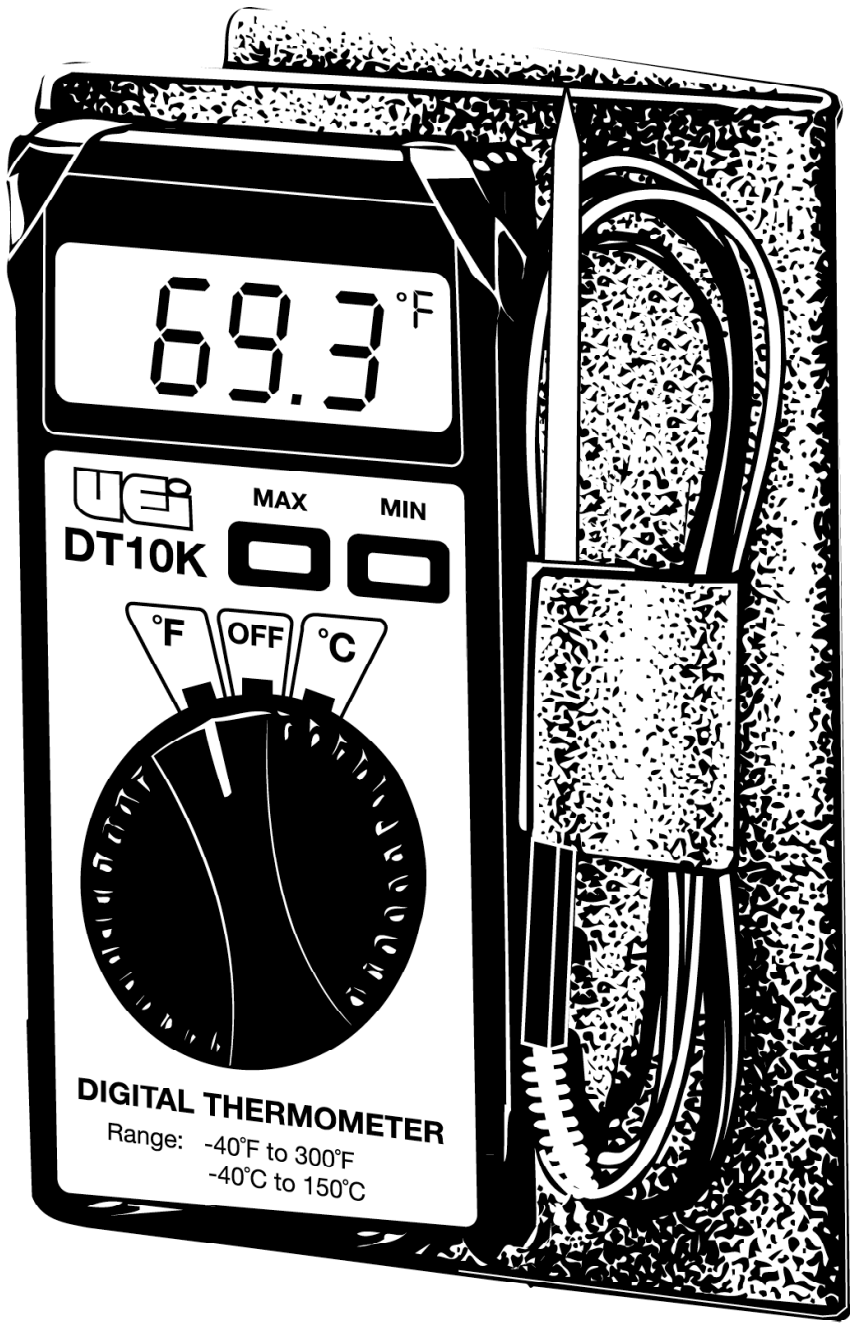
INSTRUCTION MANUAL

DT10K

Pocket Digital Thermometer



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Introduction

The DT10K is a versatile handheld temperature tester in a convenient pocket case.

Features include

- -40˚ to 300˚F (-40˚ to 150˚C)
- ˚F/˚C switchable
- Large LCD digital display
- MIN/MAX record
- Attached stem-type probe

Safety Notes

Before using this meter, read all safety information carefully. In this manual the word **"WARNING"** is used to indicate conditions or actions that may pose physical hazards to the user. The word **"CAUTION"** is used to indicate conditions or actions that may damage this instrument.

WARNING!

Exceeding the specified limits of this meter is dangerous and can expose the user to serious or possibly fatal injury.

- **DO NOT** attempt to measure any voltage that exceeds 600 volts with this meter - UEi offers numerous alternatives for measuring high voltage and current
- Voltages above 60 volts DC or 25 volts AC may constitute a serious shock hazard
- **DO NOT** attempt to use this meter if either the meter or the test leads have been damaged. Send unit in for repair by a qualified repair facility
- Test leads must be fully inserted prior to taking measurements
- Always turn off power to a circuit (or assembly) under test before cutting, unsoldering or breaking the current path. Even small amounts of current can be dangerous
- Always disconnect the live test lead before disconnecting the common test lead from a circuit
- When measuring high voltage, disconnect the power source before making test lead connections. Connect the test leads to the meter first then to the circuit under test. Reapply power
- If any of the following indications occur during testing, turn off the power source to the circuit under test:
    - Arcing
    - Flame
    - Smoke
    - Extreme Heat
    - Smell of Burning Materials
    - Discoloration or Melting of Components
- Read the safety precautions associated with the equipment being tested and seek assistance or advice when performing unfamiliar tasks.
- Keep your fingers away from the test lead metal probe contacts and bus-bars when making measurements. Always grip the instrument and test-leads behind the hand guards (molded into the probes).
- In the event of electrical shock, ALWAYS bring the victim to the emergency room for evaluation, regardless of the victim's apparent recovery. Electrical shock can cause an unstable heart rhythm that may need medical attention.

International Symbols

Dangerous Voltage	Ground
AC Alternating Current	Warning or Caution
DC Direct Current	Double Insulation (Protection Class II)
Either AC or DC	Fuse
Not Applicable to Identified Model	Battery

Operating Instructions

NOTE: *Make sure the DT10K turns completely off when changing measurement modes. Failing to do so may result in incorrect or erroneous readings.*

Temperature Measurement

1. Set the selector switch on the DT10K to the ˚C or ˚F position.
2. Place the tip of the temperature probe into the medium to be measured.
3. Allow30 seconds for reading to stabilize in liquides, 2 minutes to stabilize in semisolids and circulating air.

Minimum/Maximum Temperature Measurement

NOTE: *Follow reset procedures before the start of any measurement sequence where minimum and maximum temperatures are required. This includes when the measurement mode is changed from ˚F to ˚C or vise versa and the DT10K was already reset.*

Setting up DT10K for MIN/MAX Temperature Readings

1. Set the selector switch to the ˚C or ˚F position.
2. Place the tip of the temperature probe into the medium to be measured.
3. Allow30 seconds for reading to stabilize in liquides, 2 minutes to stabilize in semisolids and circulating air.
4. Followminimum/maximum reset procedures.

Recall of MIN/MAX Temperature

1. Depress the "**MIN**" or "**MAX**" push-buttons at any time during the measurement sequence.
2. The "**MIN**" or "**MAX**" temperature will be displayed on the LCD for approximately five seconds before before switching back to normal mode.

MIN/MAX Reset Procedure

1. Depress the "MIN" and "MAX" push-buttons at the same time.
2. Hold the buttons down for five seconds
3. Release both buttons at the same time.

Maintenance

Periodic service

WARNING!
Repair and service of this instrument is to be performed by qualified personnel only. Improper repair or service could result in physical degradation of the meter. This could alter the protection from electrical shock and personal injury this meter provides to the operator. Perform only those maintenance tasks that you are qualified to do.

These guidelines will help you attain long and reliable service from your meter:

1. Calibrate your meter annually to ensure it meets original performance specifications.
2. Keep your meter dry. If it gets wet, wipe it dry immediately. Liquids damage electronic circuits.
3. Whenever practical, keep the meter away from dust and dirt, which can cause premature wear.
4. Although your meter is built to withstand the rigors of daily use, it can be damaged by severe impacts. Use reasonable caution when using and storing the meter.

NOTE: *When servicing the meter, use only the replacement parts specified.*

Battery: 9V, NEDA 1604 or IEC 6LR 61
Test lead set: ATL55

Cleaning and Decontamination

Periodically clean your meter's case using a damp cloth. **DO NOT** use abrasives, cleaning solvents or strong detergents, as they may damage the finish or affect the reliability of the structural components.

Battery Replacement

Always use a fresh replacement battery of the specified size and type. Immediately remove the old or weak battery from the meter and dispose of it in accordance with your local disposal regulations. Old or defective batteries can leak chemicals that corrode electronic circuits.

WARNING!
To avoid electric shock, be sure to turn off the meter's power and disconnect test leads from any equipment before you remove or install batteries.

To install a new battery, follow these procedures:

1. Remove the cover on back of instrument.
2. Replace button battery observing correct polarity.
3. Replace battery cover.

WARNING!
*Under **NO** circumstance should you expose batteries to extreme heat or fire as they may explode and cause injury.*

NOTE: *If you do not plan to use the meter for a month or more, remove the battery and store it in an area that won't be damaged by a leaking battery.*

Specifications

Temperature Range	-40˚ to 300˚F (-40˚ to 150˚C)
Accuracy	-40˚ to 50˚F: ±4˚F +51˚ to 230˚F: ±2˚F +231˚ to 300F: ±4˚F -40˚ to 10˚C: ±2˚C +11˚ to 110˚C: ±1˚C +111˚ to 149˚C: ±2˚C
Resolution	0.1˚
Gerneral	
Display	3.5 digit LCD, 0.435" high numerals
Operating Temperature	32˚ to 122˚F (0˚ to 50˚C)
Operating Humidity	80% max RH
Power Supply	1.5V button battery
Dimensions	1.5" (W) x 7" (H) x 5/8" (D)
Includes	Carrying case, battery, temperature probe attached to meter and instructions.

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Limited Warranty

The DT10K is warranted to be free from defects in materials and workmanship for a period of three years from the date of purchase. If within the warranty period your instrument should become inoperative from such defects, the unit will be repaired or replaced at UEi's option. This warranty covers normal use and does not cover damage which occurs in shipment or failure which results from alteration, tampering, accident, misuse, abuse, neglect or improper maintenance. Batteries and consequential damage resulting from failed batteries are not covered by warranty.

Any implied warranties, including but not limited to implied warranties of merchantability and fitness for a particular purpose, are limited to the express warranty. UEi shall not be liable for loss of use of the instrument or other incidental or consequential damages, expenses, or economic loss, or for any claim or claims for such damage, expenses or economic loss. A purchase receipt or other proof of original purchase date will be required before warranty repairs will be rendered. Instruments out of warranty will be repaired (when repairable) for a service charge. Return the unit postage paid and insured to:

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This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

PLEASE
RECYCLE