



1-800-547-5740 • Fax: (503) 643-6322
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Introduction

The DT40 allows you to monitor and record temperatures on four stations at once. The 15' probes allow you to reach multiple appliances.

Features include

- -40 to 300°F (-40 to 150°C)
- MIN/MAX record
- Displays differential temperature (T1 - T2)
- Displays in °F or °C
- Selectable resolution of 0.1 or 1 degree
- Data hold
- Positive-response rubber buttons keep dust and moisture out
- Low mass thermistor sensors provide fast response and high accuracy

Controls and Indicators

1. **F/C Push-button:** Switches the readings between °F and °C.
2. **1°/0.1° Push-Button:** Switches the displayed resolution between 1° and 0.1° increments.
3. **MIN/MAX Push-button:** When depressed, the display will read the minimum reading recorded for the probe displayed. When pressed again, the display will read the maximum reading recorded for the probe displayed. To return the DT40 to normal operation, press the **"MIN/MAX"** push-button until the MIN and MAX enunciators turn off.
4. **REC Push-button:** When depressed, **"REC"** will appear on the display and the meter will begin to record temperatures for the probe displayed. To return the DT40 to normal operation, press the **"REC"** button until the REC enunciator turns off.
5. **D-H Push-button:** This button holds the measurement on the display until pressed again.
NOTE: This function does not work while in **"MIN/MAX"** function.
6. **Display Enunciators:** The left and right sides of the display indicates the operational modes of the instrument.
(°F, °C, T1-T4, T1-T2, BAT, D-H, MIN/MAX, REC)
7. **LLLL:** This indicates that the temperature being measured is lower than the capability of the DT40.
8. **HHHH:** This indicates that the temperature being measured is higher than the capability of the DT40.
9. **OPEN:** This indicates that either there is no probe fitted in the temperature jack being measured, or the probe is damaged and needs to be replaced.
10. **BAT:** This indicates that the batteries are low and need to be replaced.

Operating Instructions

Single Probe Temperature Measurement

1. Insert probe into temperature jack T1 on the front of the instrument.
2. Turn power on by pressing the **"ON/OFF"** push-button. (At this time the DT40 will go through a self test routine to ensure that all segments of the LCD are operating).
3. The DT40 will now show the temperature of T1 on the display. If readings from probe T2 to T4 are desired, insert the probe(s) into the desired jacks and press the **"T1-T4"** push-button until desired probe is displayed on the LCD.
4. To turn the DT40 off, press the **"ON/OFF"** push-button again.

Differential Temperature Measurement

1. Insert probes into jacks T1 and T2.
2. Turn power on by pressing the **"ON/OFF"** push-button.
3. Press the **"T1-T2"** push-button. The DT40 will now show the difference of temperature between input jacks T1 and T2.
4. To turn the DT40 off, press the **"ON/OFF"** button again.

MIN/MAX Temperature Measurement

1. Insert probes into jacks.
2. Turn power on by pressing the **"ON/OFF"** push-button.
3. Press the **"REC"** push-button to start recording minimum and maximum temperatures.

Reading minimum and maximum temperatures:

1. Select the probe to be measured with the **"T1-T4"** push-button.
2. Press the **"MIN/MAX"** push-button once for the minimum temperature measured and press the button again for the maximum temperature measured.
3. To return to normal temperature measurement, press the **"MIN/MAX"** and **"REC"** buttons until the MIN, MAX and REC enunciators turn off.
4. To clear the MIN/MAX memory, turn the instrument off and then back on.

NOTE: If recording for periods longer than 30 minutes, hold down the **"D-H"** push-button while turning the instrument on. This will disable the auto power off feature.

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 instrument. This could alter the protection from electrical shock and personal injury this instrument 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 instrument:

- Keep your meter dry. If it gets wet, wipe dry immediately. Liquids can degrade electronic circuits
- Whenever practical, keep the instrument away from dust and dirt that can cause premature wear
- Although your instrument 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

Cleaning

Periodically clean your instruments case using a damp cloth. **DO NOT** use abrasive, flammable liquids, cleaning solvents, or strong detergents as they may damage the finish, impair safety, or affect the reliability of the structural components.

Battery Replacement

The battery compartment is located on the backside of the instrument and is secured by two screws.

1. Remove the two screws from the battery cover and remove the cover.
2. Replace the old batteries with new 1.5V "AA" batteries observing polarity. (Refer to the polarity markings inside the battery compartment).

Specifications

Temperature ranges	-40° to 300°F (-40° to 150°C)
Accuracy	From 32° to 160°F (0° to 70°C) ±1.0°F (0.5°C), ±1 LSD
Resolution	0.1° or 1.0° selectable



4-Station Temperature Tester

Limited Warranty

The DT40 is warranted to be free from defects in materials and workmanship for a period of five 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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Service: (800) 308-7709

www.ueitest.com • Email: info@ueitest.com

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