

# **Temperature Tester 343**

## **Instruction Manual**



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## **EC Declaration of Conformity**

This is to certify that the 343 conforms to the protection requirements of the council directive 89/336/EEC, in the approximation of laws of the member states relating to Electromagnetic compatibility by application of the following standards:

**EN 50081-1**

**1992 Emissions Standard**

**EN 50082-1**

**1992 Immunity Standard**

To ensure conformity with these standards, this instrument must be operated in accordance with the instructions and specifications given in this manual.

## **General Guidelines**

### **ALWAYS**

- Test the 343 before using it to make sure it is operating properly.
- Inspect temperature probes before using to make sure there are no breaks or shorts.
- Double check all connections before testing.

### **NEVER**

- Insert the probe into an electrically charged medium.
- Touch the probe tip and shaft after it has been inserted in hot material.

**Features and Benefits**

- Water Resistant** Operates in any environment.
- Auto Power Off** Instrument automatically shuts off after 20 minutes of inactivity.
- Field Calibration** Perform ice bath calibration via the front keypad.

**Specifications****Input Type : K-Type Thermocouple Probe**

<b>Range</b>	<b>Accuracy</b>
-58° to 32°F (-50° to 0°C)	±3°F (1.6°C)
32° to 1100°F (0° to 600°C)	±(0.3% of reading, + 1.8°F (1°C))
1100° to 2462°F (600° to 1350°C)	±(0.4% of reading, + 1.8°F (1°C))

**General Specifications**

Display	LCD, 4 Digits, 9999 counts
Update Rate	2.5 times per second
Operating Temperature	32° to 122°F (0° to 50°C)
Storage Temperature	-13° to 158°F (-25° to 70°C)
Power Supply	9 Volt Alkaline Battery
Battery Life	200 hrs. Typical
Size (HxLxW)	40mm x 190mm x 65mm (1.5" x 7.25" x 2.5")
Weight	315g (11.1 oz)



**WARNING:** Please follow manufacturers test procedures whenever possible. Make sure probe tip and shaft are thoroughly cleaned before inserting it into any food product.

## 1. Controls and Functions:

### Push Buttons



Turns the 343 on and off.

°C/°F

Selects Centigrade or Fahrenheit

Min/Max

Selects Min or Max reading measured

T1/T2/ $\Delta$ T

Selects probe and differential mode

HOLD

Freezes the reading on the LCD

## 2. Step by Step Procedures

- a. Connect a temperature probe or probes to the 343.
- b. Turn the 343 on.
- c. Insert the tip of the probe into the substance being measured.
- d. Read the temperature on the LCD, allowing approximately 30 seconds for the reading to stabilize. Use the push buttons to switch between probes and access other functions as described above.

The 343 has the ability to be field calibrated. Accuracy of  $\pm 1^{\circ}\text{F}$  within the  $30^{\circ}\text{F}$  to  $120^{\circ}\text{F}$  range can be achieved by performing an ice bath calibration.

The temperature of an ice bath is approximately  $32^{\circ}\text{F}$  ( $0^{\circ}\text{C}$ ). Fill a plastic or metal container with crushed ice and add clean water to a depth of at least 4 inches. Stir the ice and water for 2 to 3 minutes prior to performing calibration to ensure the water is completely chilled. Make certain there is plenty of ice in the mixture and always use clean water. Distilled water works well.

## 1. Step by Step Procedures

- a. Connect both temperature probes to the 343.
- b. Press and hold down the **MIN/MAX** and **HOLD** buttons and turn the 343 on. CALF will be displayed and the 343 will enter calibration mode and begin cycling between T1 and T2.
- c. Insert the probes into the ice bath and allow the readings to stabilize.
- d. Once the reading on both inputs has stabilized, press the **HOLD** button. SAVE will be displayed and calibration is complete.

**FOR FULL FACTORY CALIBRATION PLEASE RETURN YOUR THERMOMETER TO:**

**TPI / ATTN: SERVICE DEPT.**

**9615 SW ALLEN BLVD SUITE 104**

**BEAVERTON, OR 97005**

Standard Accessories	Part No.
9V Battery	A009
Temperature Probe (2 each)	GK13M
Protective Boot	A303
Soft Pouch	A255
Instruction manual	

Optional Accessories	Part No.
Probes	See Catalog

## MAINTENANCE

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- Battery Replacement:** The 343 will display battery symbol when the internal 9 Volt battery needs replacement. Replace battery as follows:
  - Disconnect and remove all temperature probes from 343.
  - Loosen the 4 screws from the back of the 343.
  - Remove the back cover.
  - Remove old battery and replace it with new battery.
  - Reassemble instrument in reverse order from above.
- Cleaning your 343**  
 Use a mild detergent and slightly damp cloth to clean the surfaces of 343.