

EC DECLARATION OF CONFORMITY & GENERAL GUIDELINES 1

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.

TECHNICAL DATA 2

Features

Auto Power Off Instrument automatically shuts off after 20 minutes of inactivity. To disable this feature, with the instrument off press and hold down the HOLD key and the ON/OFF key. "----" will be displayed to indicate auto off is disabled. Reverse this process to enable auto off. "APO" will be displayed to indicate this feature is enabled.

Specifications

Input Type : K-Type Thermocouple Probe

Range	Accuracy
-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)

Temperature Tester 343

Instruction Manual



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MEASUREMENT TECHNIQUES 3

1. Controls and Functions:

Push Buttons

- ① Press to turn the 343 on and off.
- °C/°F Press to select Centigrade or Fahrenheit
- Min/Max Press and hold for approximately 3 seconds to activate record mode (REC displayed). Once in record mode, press repeatedly to display Min or Max reading measured. Press and hold for approximately 3 seconds to exit record mode. After exiting record mode, press repeatedly to display Min or Max readings. Activating record mode or turning the 343 off clears recorded readings. *Note: Auto power off is disabled while Record mode is active.*
- T1/T2/ΔT Press to select T1 or T2 probe and differential mode (T1-T2)
- HOLD Press to freeze the reading on the LCD

2. Step by Step Procedures

- Connect a temperature probe or probes to the 343.
- Turn the 343 on.
- Insert the tip of the probe into the substance being measured.
- 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.

FIELD CALIBRATION 4

The 343 has the ability to be field calibrated. Accuracy of +/-1°F within the 30°F to 120°F range can be achieved by performing an ice bath calibration.

The temperature of an ice bath is approximately 32°F (0°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

- Connect both temperature probes to the 343.
- Press and hold down the **MIN/MAX** and **HOLD** buttons then press and hold the ① button until a beep is heard. CALF will be displayed and the 343 will enter calibration mode and begin cycling between T1 and T2.
- Insert the probes into the ice bath and allow the readings to stabilize.
- Once the reading on both inputs has stabilized, press the **HOLD** button. SAVE will be displayed and calibration is complete.

FULL CALIBRATION IS RECOMMENDED ONCE PER YEAR. 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

- 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.