TRACEABLE® UNIVERSAL THERMOMETER WITH ALARM INSTRUCTIONS

SPECIFICATIONS

Temperature Range: –58 to 500°F (–50 to 260°C)
Resolution: 0.1°
Accuracy: ±1.0°C or 1% of reading
Probe Length: 3.5 x 120 mm
Sampling cycle: 2 or 10 sec selectable

FEATURES

- Traceable® Thermometer with metal probe for wide-range temperature measurement.
- Memory function to recall and display the previous maximum and minimum readings of temperature.
- User-selectable °C or °F temperature units of measure.
- User-selectable normal or fast sampling cycle.
- Traceable® Countdown Timer.
- High/Low temperature alarm.

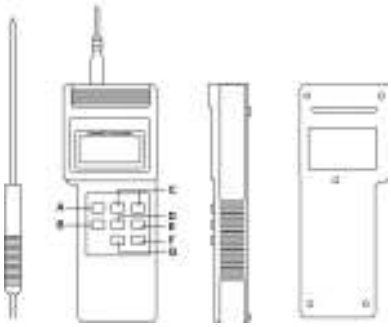

Figure 1 Traceable® Universal Thermometer/Timer

QUICK REFERENCE

ON/OFF/ON/FAST button turns thermometer on initially, then allows switching between normal and fast sampling rates. It also indicates when the High or Low Temperature Alarm is activated.
In Timer mode, this button resets the timer (see A in Figure 1).
OFF/AUTO button activates the Auto Off mode when pressed once and turns the unit off with a second press. In Auto Off mode, an AUTO indicator appears on the display and the unit will automatically shut off after 6 to 7 minutes if no buttons are pressed (see B in Figure 1).
HI/HR button allows viewing and setting the High Temperature Alarm while in Thermometer mode. While in Timer mode, it advances the Hour setting for countdown timing (see C in Figure 1).
LO/MIN button allows viewing and setting the Low Temperature Alarm while in Thermometer mode. While in Timer mode, it advances the Minute setting for countdown timing (see C in Figure 1).
MEM button alternates between the maximum, minimum, and current temperature readings with each press. MAX and MIN indicators will appear on the display (see D in figure 1).
MODE button switches the unit between Thermometer and Timer modes (see E in Figure 1).
START/STOP button starts and stops the timer while the unit is in Timer mode (see F in Figure 1).
°C/°F button alternates between Celsius and Fahrenheit temperature readings (see G in Figure 1).

TEMPERATURE MEASUREMENT

1. **Plug steel probe into socket located on top of unit before turning unit on (see Figure 1).**
2. **Press** ON button once to activate unit.
3. Select the desired unit of measure, degrees Celsius or degrees Fahrenheit, by pressing °C/°F button.
4. Set High and Low Temperature Alarms if desired (see Setting High/Low Temperature Alarm sections).
5. Place steel portion of probe in contact with material to be measured.

WARNING: Do NOT fully insert entire steel probe into material being tested. This may cause permanent damage to probe. Only insert between 40 to 50 mm from tip of probe to material being tested.

6. Press and hold the ON/FAST button to activate the fast sampling cycle (2 sec) if desired. The sampling cycle will return to normal (10 sec) after releasing ON/FAST button.

Note: The battery is exhausted much more quickly with the fast sampling cycle activated.

RECALL MINIMUM/MAXIMUM TEMPERATURE MEMORY

This unit automatically records the minimum and maximum temperature readings reached.

While in Thermometer mode, press the MEM button as necessary to cycle through maximum (MAX indicator will appear), minimum (MIN indicator will appear), and current temperature recordings.

RESET MINIMUM/MAXIMUM TEMPERATURE MEMORY

You may wish to clear the temperature memories in order to record new minimum/maximum temperatures during a specified time period.

1. Press the MEM button until either the maximum or minimum recording appears on display. A MAX or MIN indicator will appear on display.
2. Once the desired maximum or minimum recording appears on display, press and hold ON/FAST button for approximately 1 second. The current temperature reading will become the new stored record.

Note: Resetting a memory will result in the current temperature being displayed in the maximum or minimum memory display.

THERMOMETER ALARM FUNCTION

This unit is equipped with a High and Low Temperature Alarm that will sound when the current temperature reaches the alarm setting. The selecting range is from –58 to 500°F (–50 to 260°C).

Setting High Temperature Alarm

1. While in Temperature mode, press HI button to activate the Thermometer Alarm mode and view the current High Temperature Alarm setting (HI indicator will appear on display).
2. Continue pressing HI button until desired alarm setting is displayed. For rapid advancement (10 degree increments), press and hold HI button.

Note: Set the temperature alarm again after any change to the temperature unit of measure.

Setting Low Temperature Alarm

1. While in Temperature mode, press LO button to activate the Thermometer Alarm mode and view the current Low Temperature Alarm setting (LO indicator will appear on display).
2. Continue pressing LO button until desired alarm setting is displayed. For rapid advancement (10 degree increments), press and hold LO button.

Note: Set the temperature alarm again after any change to the temperature unit of measure.

Deactivating Thermometer Alarm Feature

The Thermometer Alarm feature may be deactivated while in Thermometer Alarm mode by pressing the ON button until "___" appears on the display to indicate the alarm is deactivated. If the display shows a reading, the alarm is activated.

COUNTDOWN TIMER FUNCTION

This thermometer features a Countdown Timer that may be programmed up to 99 hours, 59 minutes. Once activated, and the timer reaches 0 hours, 0 minutes, the alarm sounds and the TIMER indicator begins flashing.

1. Press the MODE button until the TIMER indicator appears on the display to verify the unit is in Timer mode.

2. While in Timer mode, press the HR button to advance Hour setting.
3. Press the MIN button to advance Minute setting.
4. Begin countdown by pressing the START/STOP button.
5. Stop countdown by pressing the START/STOP button.
6. Press any key to silence the sounding alarm or it will alarm for 1 minute before silencing.
7. Reset timer to 00 hours, 00 minutes by holding down the ON button while in Timer mode.

ALL OPERATIONAL DIFFICULTIES

If this unit does not function properly for any reason, please replace the battery with a new, high-quality battery (see "Battery Replacement" section). Low battery power can occasionally cause any number of "apparent" operational difficulties. Replacing the battery with a new fresh battery will solve most difficulties.

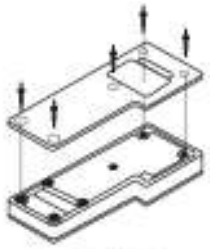

Figure 2 Battery Cover

BATTERY REPLACEMENT

An erratic display, faint display, no display, or "BATT" appearing on the display are all indicators that the battery needs replacement. This unit uses one piece UM-4 or AAA size battery (1.5 DC).

1. Unscrew the five screws located on back of unit and remove cover (see Figure 2).
2. Insert new battery and be sure battery is replaced as indicated by the polarity symbols (+ and -) marked inside the battery compartment.
3. Replace back cover and screws.

WARRANTY, SERVICE, OR RECALIBRATION

For warranty, service, or recalibration, contact:

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Control Company is ISO 9001 Quality-Certified by DNV and ISO 17025 accredited as a Calibration Laboratory by A2LA.