

Svensk återförsäljare

08-7530004, info@termometer.se Beställ direkt i vår webshop!!

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AquaTuff™ 351 THERMOMETER



Press to turn instrument ON or OFF.



Press to select Fahrenheit or Celsius temperature scale.

OPERATION:

- 1) Observing correct polarity, insert Type K thermocouple probe into connector on top of instrument.
- Press key to turn instrument on.
- Default temperature scale is Fahrenheit. To change temperature scale, press FIC key. (NOTE: Display will toggle between "F" and "C" icons on right side of display with each press of the FIC key).
- The instrument has an auto off feature that will turn off unit after 10 minutes of non keypad activity to conserve battery life. To manually turn instrument off, press and hold key momentarily.

AquaTuff™ 352 THERMOMETER



Press to turn instrument ON or OFF. When used in combination with SHIFT key, enables or disables AUTO-OFF feature.



Press to select FAHRENHEIT or CELSIUS temperature scale. When used in combination with SHIFT key, selects tenth degree or whole degree resolution.



Press to "FREEZE" current temperature reading on display. SHIFT function provides secondary user settings with other keys as noted.



Press to turn on **BACKLIGHT** for viewing temperatures in low lighting conditions. When pressed, BACKLIGHT will remain on for 5 seconds.

OPERATION:

- 1) Observing correct polarity, insert Type K thermocouple probe into connector on top of
- Press key to turn instrument on.

 Default temperature scale is Fahrenheit. To change temperature scale, press key. (NOTE: Display will toggle between "F" and "C" icons on right side of display with each press of the key).

Manufactured in the U.S.A. by Cooper-Atkins Corporation An ISO 9001 Registered Facility

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AquaTuff™ 352 THERMOMETER

OPERATION - Continued:

- 4) The instrument has an auto off feature that will turn off unit after 10 minutes of non keypad activity to conserve battery life. To manually turn instrument off, press and hold key momentarily. To disable AUTO-OFF feature, press and hold key and then press key. (NOTE: "AUTO" icon at top of display will appear when AUTO-OFF feature is active)
- The resolution default setting is tenth degree. To change resolution to whole degree, press and hold key and then press key.
 Press key to turn on backlight. When pressed,
- 6) Press (*) key to turn on backlight. When pressed the backlight will remain on for 5 seconds and automatically turn off.

NOTE: USE OF BACKLIGHT WILL SIGNIFICANTLY DECREASE BATTERY LIFE DUE TO INCREASED POWER REQUIRED FOR BACKLIGHT OPERATION

7) The instrument has a "HOLD" feature to capture the current temperature reading on the display. To activate the hold feature, press and release the key. The current temperature reading will flash on the display and the hold icon will appear at top of display. Press the key again to return to STANDARD TEMPERATURE MODE.

AquaTuff™ 353 THERMOMETER



Press to turn instrument ON or OFF.



Press to select Standard, ITS $^{\text{TM}}$, or Memory mode of operation.



In ITS Mode, press to store ITS temperature readings. In Memory Mode, press to scroll forward. In User Mode, press to select temperature scale.



In Memory Mode, press to scroll backward. In User mode, press to enable/disable Auto Off feature.

OPERATION OVERVIEW:

There are 3 Main Modes of operation:

- 1) Standard Temperature Mode
- 2) Intelligent Temperature Stabilization $^{\text{TM}}$ (ITS $^{\text{TM}}$) Mode
- 3) Memory Mode

AquaTuff™ 353 THERMOMETER

OVERVIEW - Continued

In STANDARD TEMPERATURE MODE, the instrument functions like a normal thermometer. In ITS™ Mode, the instrument operates with the Intelligent Temperature Stabilization ™ feature. The 353 series instrument has a unique feature to display temperature of item being measured when the temperature has reached its final stabilized temperature. The purpose of this feature is to assist the user in determining when the final stabilized temperature has been reached. The ITS feature is dynamic, in that it operates continuously in real time. It can be used in ITS Mode with the option of recording stabilized temperature readings or simply as a thermometer with ITS functionality. The MEMORY MODE is for viewing ITS temperature data stored in memory and you can scroll in both directions. The (MODE) key easily allows the user to select desired mode of operation.

STANDARD TEMPERATURE MODE:

- Press ON/OFF key to turn instrument ON/OFF.
- 2) Default temperature scale is Fahrenheit. To change temperature scale, with instrument turned OFF, press and hold woot key and then press key to enter USER MODE (NOTE: Display will show "USEr"). Press key to switch between Fahrenheit and Celsius (NOTE: Display will toggle between "F" and "C" icons on right side of display with each press of the key). Press key to exit USER MODE to use instrument in STANDARD TEMPERATURE MODE.
- 3) The instrument has an auto off feature that will turn off unit after 10 minutes of non keypad activity to conserve battery life. To disable auto off feature, with instrument turned OFF, press and hold the MODE wood key and then press key to enter USER MODE. Press key to enable or disable auto off feature. When active, the AUTO icon appears at the top of LCD display. Press key to exit USER MODE to use instrument in STANDARD TEMPERATURE MODE.

ITS MODE (Intelligent Temperature Stabilization™):

 To use ITS MODE, press to turn instrument ON. On power up, the instrument is placed in STANDARD TEMPERATURE MODE. Press the wood key to select and activate the ITS function. The ITS icon will appear at the top of the LCD when ITS MODE is selected.

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ITS MODE - Continued:

- 2) When ITS MODE is active, the display will show "--" while the temperature is changing (stabilization seek mode). The final stabilized temperature reading will flash on the display when reached. The ITS temperature reading will remain flashing on the display until the probe is removed or temperature changes by approximately 5°F(3°C). When the temperature changes, the instrument will return to ITS stabilization seek mode and "--" will be displayed until the next stabilized temperature is reached and that temperature reading will flash on the display.
- 3) The user has the option of storing the ITS temperature reading in memory. To store ITS temperature reading, press key to store reading. The display will show reading number "r001-r250" and store reading in memory. Up to 250 readings can be stored in memory.
- To return to STANDARD TEMPERATURE MODE, turn unit OFF and back ON or repeatedly press
 key until both ITS and MEM icons are turned off at top of display.

MEMORY MODE:

- To view temperature readings stored in memory, turn instrument ON and press key to select MEMORY MODE. When active, MEM icon will appear at top of LCD. (NOTE: WITH NO TEMPERATURE DATA IN MEMORY, INSTRUMENT WILL NOT ENTER MEMORY MODE.)
- 2) To view temperature data, press key to scroll forward or key to scroll backward through temperature data. The display will show reading number "r001-r250" followed by the temperature recorded. (NOTE: TO ACCESS FAST SCROLL MODE, PRESS AND HOLD KEY ON KEY AND DISPLAY WILL QUICKLY SEQUENCE THROUGH TEMPERATURE READINGS.)
- 3) The temperature data is a cyclical data system. When scrolling through data, the temperature readings will cycle through all readings either forward or backward and then repeat readings when either the first or last reading in memory is reached.
- To clear temperature readings in memory, press and hold both the here and keys at the same time until "CLr" is shown on display.
- 5) To return to STANDARD TEMPERATURE MODE, turn unit OFF and back ON or repeatedly press key until both ITS and MEM icons are turned off at top of LCD display.

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MEMORY MODE - Continued:

USER TIP

When temperature readings are cleared from memory, there is no facility to restore deleted temperature data.

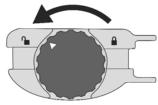
Ensure that temperature data is not needed before clearing memory contents.

351 / 352 / 353 BATTERY REPLACEMENT

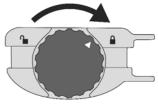
BATTERY REPLACEMENT:

- Turn battery door knob counter-clockwise until rotation stops. The arrow on battery door knob will point towards unlock icon.
- Pull battery door knob to remove battery door assembly. Remove batteries.
- Referring to battery polarity drawing on rear label, install (2) AAA alkaline batteries as shown.
- 4) To install battery door assembly, ensure that battery door knob is turned fully counter-clockwise and arrow on battery door is pointed towards unlock icon. Push upward on battery door assembly until battery door knob is seated against housing. Rotate battery door knob clockwise until rotation stops. The arrow on battery door knob will point towards lock icon.

TURN COUNTER-CLOCKWISE TO UNLOCK



TURN CLOCKWISE TO LOCK



351 / 352 / 353 SPECIFICATIONS

TEMPERATURE RANGES:

35100-K / 35200-K / 35300-K:

100° to 999°F (73° to 537°C)

35132 / 35135 / 35140 / 35141:

35232 / 35235 / 35240 / 35241:

35332 / 35335 / 35340 / 35341: 100° to 500°F (73° to 260°C)

ACCURACY:

35100-K / 35200-K / 35300-K:

With factory calibration, ±0.5F° (±0.3C°) over entire measurement range at ambient temperatures between 68° to 86°F (20° to 30°C)

35132 / 35140 / 35141:

35232 / 35240 / 35241:

35332 / 35340 / 35341:

With factory calibration, ±0.9F° (±0.5C°) Total System Accuracy over entire measurement range at ambient temperatures between 68° to 86°F (20° to 30°C)

35135 / 35235 / 35335:

Surface probe temperature errors for draft free, flat, clean oiled surfaces with 2.2 lbs.(1 Kg) of pressure are typically within +2.7°F and 6.3°F (+1.5°C and 3.5°C) without thermostat recycling.

RESOLUTION:

35100-K / 35300-K:

35132 / 35135 / 35140 / 35141:

35332 / 35335 / 35340 / 35341:

Tenth degree (.1)

35200-K / 35232 / 35235 / 35240 / 35241:

Tenth degree / whole degree (.1/1), user selectable

BATTERY LIFE:

1800 Hours (2) AAA Alkaline batteries

AMBIENT TEMPERATURE LIMITS:

32° TO 122°F (0° TO 50°C)

TRACEABILITY:

We certify that this instrument has been calibrated to temperature and/or electrical standards traceable to the U.S. Department of Commerce National Institute of Standards and Technology.

CALIBRATION:

Under normal operating conditions, the unit should not require re calibration.

351 / 352 / 353 TROUBLESHOOTING

TROUBLESHOOTING

Our Customer Service Department is available Monday through Friday 8:00 AM to 5:00 PM EST at 800-835-5011.

1) Unit Does Not Turn On:

Batteries are installed incorrectly or dead. Check batteries are installed according to picture on rear label. Replace batteries.

- Display Shows "Prob": Probe is broken (Open thermocouple see "Test for Broken Probe" below).
- 3) Test for Broken Probe: Pull the probe connector out partially to expose the blade contacts. Place a metal paper clip across connector blades to short contacts. If instrument displays temperature, the probe is broken. Replace Probe.
- Battery Icon Appears on Display: Low battery. Replace batteries.
- Display Shows "bAtt" and Instrument Shuts Off: Replace batteries.
- 6) Display Shows "LO" or "HI": Temperature measured is outside measurement range of instrument.

351 / 352 / 353 WARRANTY

WARRANTY: Cooper Atkins thermometers are backed by a 5 year Instrument Warranty and 1 year Probe Warranty on defects in workmanship and materials.



5 YEAR WARRANTY

Any instrument which proves to be defective in material or workmanship within five years of original purchase will be repaired or replaced without charge upon receipt of the unit prepaid with proof of purchase. This Limited Warranty does not cover damage in shipment or failure caused by tampering, obvious carelessness, or abuse, and is the purchaser's sole remedy.

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