



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.

Manufactured in the USA by COOPER - ATKINS CORPORATION
An ISO 9001 Registered Facility

Digital Thermocouple
Thermometer
Warranty

**AquaTuff™
FW2000**



**AquaTuff™
FW2000MK**



OPERATING INSTRUCTIONS

THE KEYS



Press to activate / deactivate the unit.
Note: Unit will automatically shut off after 1-1/2 minutes of inactivity.



Press to select Fahrenheit scale.
During Calibration, press to increase the temperature displayed.



Press to select Celsius scale.
During Calibration, press to decrease the temperature displayed.

ATKINS Atkins Key. Used as a "Hold" button during calibration only.

NORMAL OPERATION

- Press the ON/OFF Key to turn on the unit.**
(No other button will activate the FW2000 / FW2000MK.)
- Select the temperature scale you wish to have the unit display.**
-- Press the **F** Key to display Fahrenheit readings or
-- Press the **C** Key to display Celsius readings.
- Insert probe into item to be tested.**

Special notes:

- If the measured temperature is stable (doesn't change by more than 3°F (2°C)) for 1-1/2 minutes, the unit will shut off automatically.
- If the battery needs to be replaced, three blinking decimal points (. . .) appear on the LCD display. This means that 8 hours of battery life remain. As battery voltage becomes less, "b.A.t." will appear along with 3 blinking decimal points.
- If the unit gets a reading that is outside of its range (-100° to 999°F) (-73° to 537°C), it will display either "HI" or "LO", as appropriate.
- The unit has a "continuous on" feature. To activate, the unit must be on. Hold down the Atkins Key and press and release the ON/OFF Key. To deactivate, press the ON/OFF Key and the unit will turn off.

CALIBRATION

To calibrate the unit, the temperature of the test solution you are using must be 32°F (0°C) ± 5°F (±2°C) or must be greater than 60°F (16°C). For best results, use an ice bath which consists almost entirely of crushed ice, with only a little water. Proceed as follows:

- Turn unit on.**
- Place the probe into the test solution.**
- Hold down both the F and C keys until "CAL" is displayed.**
This takes approximately 3 seconds. You are now in calibration mode.

CALIBRATION - Continued

- Release both keys.** "CAL" will be replaced by "Hold" on the display.
- Press and hold down the Atkins Key.** "Hold" will be replaced by three decimal points (. . .) with the current temperature reading.
- While holding the Atkins Key down, press the up or down arrow keys (F or C) as appropriate.** For example, if you are using the ice bath method, and your reading is 35°F, press and release the down arrow key as many times as needed until "32F" displays on the LCD.
- When you are done making adjustments, or if no calibration is necessary, simply keep the Atkins Key pressed until "End" displays on the LCD (approximately 7 seconds) and the unit returns to NORMAL mode. Release the Atkins Key.**

Special notes:

- Failure to keep the Atkins Key pressed down at all times during calibration will take you out of the mode and read "Abrt". To correct this simply restart the calibration process from Calibration step 1.
- If the unit cannot be recalibrated by using the ice bath method you can reset the unit to factory settings. To do so, while in the CAL mode, still holding the Atkins Key, press both the F and C keys for 3 seconds to select the factory defaults. "FAC" will be displayed on the LCD for 2 seconds.

HOLD MODE

If "Hold" is displayed on the LCD when the unit is turned on, it means an error has occurred. To correct this error, press the Atkins Key. This will reset the unit to its previous calibration.

SPÉCIFICATIONS / FONCTIONS

FW2000 Temperature Range:	-100° to 500°F (-73° to 260°C)
FW2000MK Temperature Range:	-100° to 999°F (-73° to 537°C)
Probe Temperature Range:	-100° to 500°F (-73° to 260°C)
Ambient Operating Range:	0° to 115°F (-18° to 46°C)
Accuracy from -35° to 350°F (-37° to 177°C)	
in Ambient 60° to 80°F (16° to 27°C):	±1F° (±0.5C°)
Accuracy from All Other Ranges:	±2F° (±1C°)
Temperature Display Resolution:	1°F or 1°C
Battery:	9 volt alkaline NEDA 1604
Battery Life:	Minimum of 500 hours ON time
Low Battery:	LCD displays 3 blinking decimal points when 8 hours of battery life remain

Automatic Shut Off:
LCD:

After 1-1/2 minutes of non-use
Liquid crystal display, with
0.5" (1.27 cm) high
digits; viewing area
1.5" x 0.7" (3.81 x 1.77 cm)