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Extech Instruments HW30

EXTECH Instruments HW30 HeatWatch Humidity and Temperature Stopwatch User Manual

Model: HW30 | Brand: Extech Instruments

1. INTRODUCTION

The Extech Instruments HW30 HeatWatch is a multi-function stopwatch designed to provide essential environmental data alongside precise timing capabilities. This device displays digital up/down timer functions, current temperature, humidity, and calculates the heat index, which indicates how hot it feels when humidity is combined with the actual temperature. It is an ideal tool for monitoring conditions in various environments, particularly those with hot weather. Additional features include a 12/24-hour clock, a standard stopwatch, 30 lap/split memory, and a programmable alarm.

2. KEY FEATURES

- Multi-function stopwatch with digital display.
- Integrated up/down timer.
- Real-time temperature display.
- Real-time humidity display.
- Heat Index calculation for perceived temperature.
- 12/24-hour clock display.
- Stopwatch function with 30 lap/split memory.
- Programmable alarm function.

3. PACKAGE CONTENTS

Verify that all items are present and in good condition upon opening the package:

- HW30 HeatWatch Humidity and Temperature Stopwatch

- Lanyard
- 1 x Lithium Metal Battery (installed or separate)
- Operating Instructions (this manual)

4. PRODUCT OVERVIEW

The HW30 HeatWatch features a robust design with clearly labeled buttons for easy operation and a large LCD for clear readings.

Figure 4.1: Front view of the Extech HW30 HeatWatch, showing the display and control buttons.

Figure 4.2: Detailed view of the HW30 display, indicating humidity (50%), temperature (86°F), and heat index (88°).

4.1. Controls and Display

- **START/STOP Button:** Initiates and pauses timing functions.
- **MODE Button:** Cycles through different operating modes (Time, Stopwatch, Humidity/Temperature/Heat Index, Alarm).

- **LAP/SPLIT/RESET Button:** Records lap/split times or resets the stopwatch.
- **RECALL Button:** Accesses stored lap/split memory.
- **LCD Display:** Shows time, measurements, and function indicators.

5. SETUP

5.1. Battery Installation

The HW30 HeatWatch requires one Lithium Metal battery for operation. The battery is typically included with the device.

1. Locate the battery compartment cover on the back of the unit.
2. Use a small screwdriver or coin to open the battery compartment.
3. Insert the Lithium Metal battery, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Replace the battery compartment cover and secure it.

Note: *Dispose of used batteries responsibly according to local regulations.*

6. OPERATING INSTRUCTIONS

This section details the various functions and modes of the HW30 HeatWatch.

Figure 6.1: The HW30 HeatWatch being held, demonstrating its portable and ergonomic design for active use.

6.1. Basic Operation and Mode Selection

Press the **MODE** button to cycle through the following display modes:

- **Time Mode:** Displays the current time (12 or 24-hour format).
- **Stopwatch Mode:** For timing events, including lap/split functions.
- **Humidity/Temperature/Heat Index Mode:** Shows environmental readings.
- **Alarm Mode:** For setting and activating the programmable alarm.

6.2. Setting the Time and Date

1. In Time Mode, press and hold the **MODE** button until the time digits begin to flash.
2. Use the **START/STOP** button to adjust the flashing digit (hours, minutes, seconds).

3. Press the **LAP/SPLIT/RESET** button to move to the next digit or setting (e.g., 12/24-hour format, date).

4. Once all settings are configured, press the **MODE** button to exit setup.

6.3. Using the Stopwatch Functions

1. Switch to Stopwatch Mode using the **MODE** button.

2. Press **START/STOP** to begin timing.

3. Press **LAP/SPLIT/RESET** to record a lap or split time. The display will momentarily show the recorded time while the stopwatch continues to run in the background.

4. Press **START/STOP** again to pause the stopwatch.

5. To resume, press **START/STOP**. To reset, press **LAP/SPLIT/RESET** while the stopwatch is paused.

6. To recall stored lap/split times, press the **RECALL** button in Stopwatch Mode. Use **LAP/SPLIT/RESET** to scroll through memory.

6.4. Humidity, Temperature, and Heat Index Measurement

The HW30 automatically measures and displays humidity, temperature, and calculates the heat index in the dedicated mode.

1. Switch to Humidity/Temperature/Heat Index Mode using the **MODE** button.

2. The display will show the current humidity percentage, temperature (in °F or °C), and the calculated heat index.

3. Allow a few minutes for the sensors to stabilize and provide accurate readings, especially when moving the device between environments with different conditions.

6.5. Setting the Alarm

1. Switch to Alarm Mode using the **MODE** button.

2. Press and hold the **MODE** button until the alarm time digits begin to flash.

3. Use the **START/STOP** button to adjust the flashing digit (hours, minutes).

4. Press the **LAP/SPLIT/RESET** button to move between hours and minutes.

5. Once the desired alarm time is set, press the **MODE** button to confirm.

6. To activate or deactivate the alarm, press the **START/STOP** button in Alarm Mode. An alarm icon will appear on the display when activated.

7. MAINTENANCE

7.1. Cleaning

- Wipe the unit with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Ensure the device is dry before storage or further use.

7.2. Storage

- Store the HW30 in a cool, dry place away from direct sunlight and extreme temperatures.
- If storing for extended periods, it is recommended to remove the battery to prevent leakage.

7.3. Battery Replacement

Replace the battery when the display becomes dim or the unit ceases to function. Refer to Section 5.1 for battery installation instructions.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your HW30 HeatWatch.

Problem	Possible Cause	Solution
No display or dim display	Low or dead battery; Incorrect battery installation.	Replace the battery; Ensure battery is installed with correct polarity.
Inaccurate temperature/humidity readings	Sensors not stabilized; Extreme environmental conditions.	Allow several minutes for the unit to acclimate to the environment; Ensure sensors are not obstructed.
Stopwatch not responding	Unit in incorrect mode; Buttons stuck.	Cycle through modes to Stopwatch Mode; Check for any physical obstructions on buttons.
Heat Index reading seems off	Heat index calculation is based on specific algorithms and can vary slightly; Sensor acclimation.	Ensure temperature and humidity readings are stable; Understand that heat index is a calculated value.

9. SPECIFICATIONS

Technical specifications for the Extech HW30 HeatWatch Humidity and Temperature Stopwatch:

Specification	Value
Model Number	HW30
Product Dimensions	3.1 x 2.6 x 0.8 inches (7.9 x 6.6 x 2.0 cm)
Item Weight	0.71 ounces (0.02 Kilograms)
Battery Type	1 Lithium Metal battery (included)
Material	Plastic
Color	Green
Manufacturer	Extech
First Available Date	April 20, 2004

10. WARRANTY AND SUPPORT

Extech Instruments products are designed for reliability and performance. For specific warranty information, please refer to the warranty card included with your product or visit the official Extech Instruments website. For technical support, troubleshooting assistance beyond this manual, or to inquire about replacement parts,

please contact Extech Instruments customer service through their official channels.

You can find more information and support resources on the [Extech Instruments Brand Store on Amazon](#).