

SW700

REED INSTRUMENTS

Heat Stress Stopwatch



Instruction Manual

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Introduction

Thank you for purchasing your REED SW700 Heat Stress Stopwatch. Please read the following instructions carefully before using your instrument. By following the steps outlined in this manual your meter will provide years of reliable service.

Product Quality

This product has been calibrated during the manufacturing process to meet stated product specifications. If a certificate of calibration is required please contact the nearest authorized REED distributor or authorized Service Center. Please note an additional fee for this service will apply.



Safety

Never attempt to repair or modify your instrument. Dismantling your product, other than for the purpose of replacing batteries, may cause damage that will not be covered under the manufacturer's warranty. Servicing should only be provided by an authorized service center.

WARNING

- Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
- Even used batteries may cause severe injury or death.
- Call a local poison control center for treatment information.
- Identification of compatible battery type: CR2032
- Nominal battery voltage: 3V
- Non-rechargeable batteries are not to be recharged.
- Do not force discharge, recharge, disassemble, heat above 140°F (60°C) or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
- Ensure the batteries are installed correctly according to polarity (+ and -).
- Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
- Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.
- Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.



Features

- Measures temperature and humidity, calculates heat index and dew point
- Stopwatch/chronograph mode with 1/100 second resolution
- Calendar mode displays day, month and date
- 99 lap counter with 30 lap/split memory
- Fastest/Slowest/Average lap recall
- 10 hours countdown timer with audible beeper warning for the last 5 seconds
- Programmable alarm
- 12 or 24 hour clock operation
- 48" nylon lanyard
- Backlit LCD display
- Silent operation option
- Battery and solar powered

Specifications

Temperature

Measuring Range(s):	Temperature: 23 to 122°F (-5 to 50°C) Heat Index: 70 to 122°F (22 to 50°C)
Accuracy:	±1.8°F (1.0°C)(32 to 104°F(0 to 40°C)) ±3.6°F (2°C)
Resolution:	0.1°F/°C

Humidity

Measuring Range:	1 to 99% RH
Accuracy:	±5% RH (40% to 70%) ±8% RH (Other)
Resolution:	0.1% RH

General Specifications

Timing Capacity:	9 hrs, 59 mins, and 59 secs
Accuracy:	±3 seconds/day
Lap Memory:	30 laps
12 or 24 hour clock:	Yes
Time Alarm:	Yes
Display:	LCD
Backlit Display:	Yes
Power Supply:	CR2032 battery or Solar Panel
Battery Life:	Approx. 1000 hours (Alkaline)
Product Certifications:	CE, IPX4
Operating Temperature:	14 to 140°F (-10 to 60°C)
Storage Temperature:	14 to 140°F (-10 to 60°C)
Operating Humidity Range:	0 to 99%
Dimensions:	2.7 x 3.6 x 1.0" (68 x 92 x 23 mm)
Weight:	2.9oz (83g)

Instrument Description



1. Lap reset
2. Day of the week indication
3. Minutes, seconds 1/100th second display
4. Mode Selection
5. Start/stop/set
6. Alarm set indicator
7. Shock and water resistant case
8. 48" nylon lanyard

Operating Instructions

Selecting Measurement Modes

The SW700 offers 8 types of measurement modes to choose from:

1. **Time & Date Mode** (Displays hour, minutes, seconds and day of the week)
2. **Temperature and Humidity Mode** (Displays the ambient temperature and humidity)
3. **Heat Index Mode** (Combines the temperature & humidity to display the human-perceived temperature)
4. **Dew Point Mode** (Dew Point is the temperature at which the air can no longer "hold" water vapor and must condense)
5. **Lap Mode** (Measure the time spent per lap)
6. **Split Time Mode** (Measure the whole split time from the beginning)
7. **Countdown Mode** (Countdown a specific amount of time and how many times the countdown has cycled)
8. **Alarm Time Mode** (Set a specific time for the alarm to go off)

Press the **MODE** button to toggle between measurement modes.

The meter will remain in temperature and humidity mode, heat index mode or dew point mode for 2 minutes and will default back to time & date mode.

Selecting Temperature Unit of Measure

While in Temperature/Humidity mode, Heat Index mode or Dew Point mode, press the **START/STOP** button to toggle between Celsius (°C) and Fahrenheit (°F).

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Time and Calendar Setup Mode

1. While in Time and Date mode, press and hold the **RECALL** button to enter the Time and Calendar setup mode.
2. The seconds' digit will begin to flash.
3. Press the **START/STOP** button to bring the seconds to 00.
4. Press the **LAP/SPLIT RESET** button to confirm your selection and switch to the minutes digit.
5. Press the **START/STOP** button to adjust the minutes.
6. Press the **LAP/SPLIT RESET** button to confirm your selection and switch to the hour digit.
7. Press the **START/STOP** button to adjust the hour.
8. Press the **LAP/SPLIT RESET** button to confirm your selection and switch to the year digit.
9. Press the **START/STOP** button to adjust the year.
10. Press the **LAP/SPLIT RESET** button to confirm your selection and switch to the month digit.
11. Press the **START/STOP** button to adjust the month.
12. Press the **LAP/SPLIT RESET** button to confirm your selection and switch to the date digit.
13. Press the **START/STOP** button to adjust the date.
14. Once done, the last setting switches between the 12 & 24 hour clock. Press the **START/STOP** button to select between the two.
15. Press the **MODE** button to save your selections and resume normal operation.

NOTE: The meter will automatically exit out of the Setup mode if no key is pressed within 30 seconds

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Alarm Time Setup Mode

1. While in Alarm Time mode, press and hold the **RECALL** button to enter the Alarm Time setup mode.
2. The hour digit will begin to flash.
3. Press the **START/STOP** button to adjust the hour.
4. Press the **LAP/SPLIT RESET** button to confirm your selection and switch to the minutes digit.
5. Press the **START/STOP** button to adjust the minutes.
6. Press the **LAP/SPLIT RESET** button to confirm your selection.
7. Press the **MODE** button to save your selections and resume normal operation.

NOTE: The alarm is automatically turned ON after the time is set. Press the **START/STOP** to disable the alarm while in Alarm Time Mode. When enabled, the alarm will ring for 30 seconds and can be stopped by pressing any button.

Backlight

Press the **LIGHT** button to turn the LCD Backlight on and will automatically turn off after approx. 5 seconds.

Enabling/Disabling the Beeper

While in Time and Date mode, press the **START/STOP** button to enable/disable the beeper.

Battery Replacement

A faint display, incorrect display, or no display may indicate that the battery needs replacement.

1. Remove the screws from the back of the unit.
2. Open the back and replace the CR2032 (3V) battery, ensuring the correct polarity.
3. Secure the back into place with the screws.

⚠ WARNING **INGESTION HAZARD • DEATH** or serious injury can occur
• A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as **2 hours** • Keep new and used batteries **OUT OF REACH OF CHILDREN** • **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body
• For treatment information call: 1-800-498-8666.

Product Warranty

REED Instruments guarantees this instrument to be free of defects in material or workmanship for a period of one (1) year from date of shipment. During the warranty period, REED Instruments will repair or replace, at no charge, products or parts of a product that proves to be defective because of improper material or workmanship, under normal use and maintenance. REED Instruments total liability is limited to repair or replacement of the product. REED Instruments shall not be liable for damages to goods, property, or persons due to improper use or through attempts to utilize the instrument under conditions which exceed the designed capabilities. In order to begin the warranty service process, please contact us by phone at 1-877-849-2127 or by email at info@reedinstruments.com to discuss the claim and determine the appropriate steps to process the warranty.

Product Disposal and Recycling



Please follow local laws and regulations when disposing or recycling your instrument. Your product contains electronic components and must be disposed of separately from standard waste products.

Product Support

If you have any questions on your product, please contact your authorized REED distributor or REED Instruments Customer Service by phone at 1-877-849-2127 or by email at info@reedinstruments.com.

Please visit www.REEDInstruments.com for the most up-to-date manuals, datasheets, product guides and software.

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