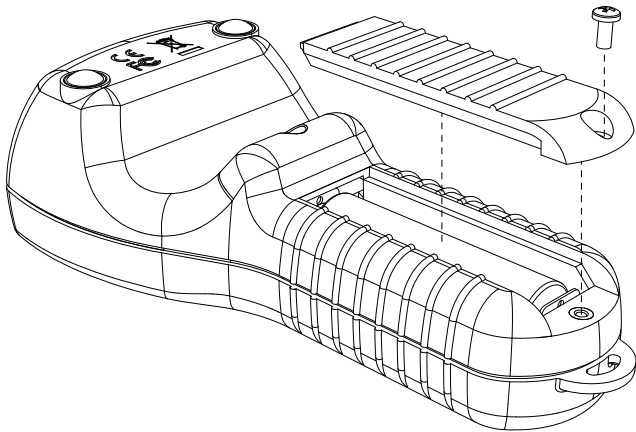# Stopwatch (ME-1234)

Introduction

The PASCO Stopwatch is a digital stopwatch designed specifically for science timing. The Stopwatch has two display modes, "Decimal Seconds" and "MM:SS.SS", and it can record and recall up to nine event times. The device operates on a single AA alkaline battery (included) and features a "Low Battery" indicator.

Installing the battery

To install the included battery, follow these steps:

1. Use a #0 size Phillips head screwdriver to remove the screw located near the bottom of the back side of the stopwatch.

2. Lift the battery cover off the battery compartment, as shown below.

3. Install the AA alkaline battery so the negative (-) end presses against the spring at one end of the compartment and the positive (+) end is held firmly in place at the other end.

4. Place the battery cover back over the battery compartment. Tighten the screw back in place.

Button functions

Press **ON** to turn on the stopwatch. The stopwatch automatically turns itself off if it's idle for one hour, or if the maximum display time (99 hours, 59 minutes, and 59 seconds) is reached. The following table summarizes the functions of the other buttons.

> **NOTE:** In the table below, "**hold**" refers to pressing and holding the button down for at least one second.

Button	Function
START	Clears display to 0.00 and **starts timing**.
STOP	**Stops timing** and displays recorded time.
RESET	Stops timing and **resets time to 0.00**.
RESET (**hold**)	Stops timing *and* clears time, last time, and any stored event times.
EVENT	While timing, **stores event times**.
EVENT (**hold**)	**Switches display** between "Decimal Seconds" mode and "MG:SS.SS" mode. This function is active in all modes except while timing.
RECALL	**Recalls last stopping time**, or **recalls events** if any events are stored. While viewing event times, scrolls through all stored events. This function is not available while timing.

Display modes

When the stopwatch is turned on, the default display mode is "Decimal Seconds". The other display mode, "MM:SS.SS", shows minutes, seconds, and hundredths of seconds up to 59 minutes and 59.99 seconds (59:59.99), then switches to show hours, minutes, and seconds up to 99 hours, 59 minutes, and 59 seconds (99:59:59). Press and hold the **EVENT** button for just over one second to switch between display modes.

Figure 1. Decimal Seconds (left; default) and MG:SS:SS (right) display modes.

Timing events

Timing simple intervals

With the display showing 0.00, press **START** to start timing. Press **STOP** to stop timing and show the time. Press START again to begin timing a new interval. (This will cause the display to clear to 0.00 and start showing the new time.)

Timing two or more intervals will cause the previous interval to be stored as "LAST TIME". After you press STOP, press **RECALL** to display the LAST TIME.

Press and hold **RESET** for just over one second to cause the stored LAST TIME, as well as the displayed time, to be set to zero.

Timing multiple events

After you press START to begin timing, press and release the **EVENT** button to store the recorded time as an event. Every time you press EVENT, the number oevents that have been recorded is displayed as "EVENT N", where N is the event number. EVENT may be pressed up to 9 times before timing automatically stops. You can also press STOP to immediately end timing.

Figure 2. A view of the stopwatch with EVENT 3 displayed.

Press **RECALL** to view EVENT 1. Press RECALL repeatedly to cycle through all the stored event times. Press and release the **RESET** button to clear the display. Stored events will be retained. When you clear the display, "EVENT (blank)" will be displayed, as the 0.00 time in the display is not a stored event time, but the previous events are still in storage. Whenever events are stored using the EVENT button, any LAST TIME that was recorded can no longer be recalled.

Press and hold RESET to zero the time display *and* clear all recorded event times. Note that, if all nine EVENT slots have stored data, you will not be able to record new events until you clear the stored data.

Resetting events and LAST TIME

Press and hold **RESET** for just over one second to reset the time, all events, and the LAST TIME to 0.00 seconds. You can do this at any time, even when the stopwatch is timing.

Other operations

Auto-off and battery life

The stopwatch powers down if it is left idle for an hour. Press **ON** to turn it on again. Although the display will show 0.00, if there are stored event times, "EVENT" will also appear. Press **RECALL** to see the stored event times or the LAST TIME that was on the display before the "auto-off".

> **NOTE:** As long as the stopwatch is counting, the auto-off feature is disabled until the stopwatch reaches its maximum count. Storing the stopwatch with the display counting will significantly shorten the battery life. If the stopwatch is counting, press RESET before storage.

If the stopwatch will spend most of its time in storage, battery life can be extended to nearly the shelf-life of the battery by removing the battery before storage and storing it separately. This will also prevent a leaky battery from damaging the stopwatch.

Low battery indicator

When "LOW BATTERY" appears in the upper left corner of the display, press **STOP** to end timing. Replace the battery with a new AA alkaline battery. If the battery is not replaced, the display will begin to dim in a short time.

Troubleshooting

If the display ever seems "frozen", or if the stopwatch does not operate when a new battery is installed, remove the battery for ten to fifteen seconds and then reinstall it. Ensure the battery polarity is correct.

Specifications and accessories

Visit the product page at pasco.com/product/ME-1234 to view the specifications and explore accessories. You can also download experiment files and support documents from the product page.

Technical support

Need more help? Our knowledgeable and friendly Technical Support staff is ready to answer your questions or walk you through any issues.

☐ Chat	pasco.com
☎ Phone	1-800-772-8700 x1004 (USA) +1 916 462 8384 (outside USA)
✉ Email	support@pasco.com

PASCO

Regulatory information

Limited warranty

For a description of the product warranty, see the Warranty and Returns page at www.pasco.com/legal.

Copyright

This document is copyrighted with all rights reserved. Permission is granted to non-profit educational institutions for reproduction of any part of this manual, providing the reproductions are used only in their laboratories and classrooms, and are not sold for profit. Reproduction under any other circumstances, without the written consent of PASCO scientific, is prohibited.

Trademarks

PASCO and PASCO scientific are trademarks or registered trademarks of PASCO scientific, in the United States and in other countries. All other brands, products, or service names are or may be trademarks or service marks of, and are used to identify, products or services of, their respective owners. For more information visit www.pasco.com/legal.

Product end-of-life disposal

This electronic product is subject to disposal and recycling regulations that vary by country and region. It is your responsibility to recycle your electronic equipment per your local environmental laws and regulations to ensure that it will be recycled in a manner that protects human health and the environment. To find out where you can drop off your waste equipment for recycling, please contact your local waste recycle or disposal service, or the place where you purchased the product. The European Union WEEE (Waste Electronic and Electrical Equipment) symbol on the product or its packaging indicates that this product must not be disposed of in a standard waste container.

CE statement

This device has been tested and found to comply with the essential requirements and other relevant provisions of the applicable EU Directives.

FCC statement

This device complies with part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Battery disposal

Batteries contain chemicals that, if released, may affect the environment and human health. Batteries should be collected separately for recycling and recycled at a local hazardous material disposal location adhering to your country and local government regulations. To find out where you can drop off your waste battery for recycling, please contact your local waste disposal service, or the product representative. The battery used in this product is marked with the European Union symbol for waste batteries to indicate the need for the separate collection and recycling of batteries.