

AD-5709TL AD-5709TL-E Multifunction Waterproof Timer

INSTRUCTION MANUAL

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1WMPD4002658B

1. Introduction

This manual describes how the product, the AD5709TL-E (Multifunction Waterproof Timer) works and how to get the most out of the product. Read this manual thoroughly before using the product and keep the manual at hand for future reference.

While the product can be used as a normal timer, it can also be set up with up to 8 timers which are executed in sequential steps. Furthermore, you can repeat the set sequence of steps a set number of times.

2. Safety Precautions

All safety messages are detailed according to the ANSI Z535.4 (American National Standard Institute: Product Safety Signs and Labels) standard.

WARNING DEFINITIONS

The warnings described in this manual mean the following:

	This symbol indicates a potentially hazardous situation that, if not avoided, could result in personal injury or property damage. It may also be used to alert against the user about unsafe practices.
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When using the AD-5709TL-E, the following safety precautions should always be followed.

CAUTION

Internal servicing or adjustment of the product must be performed by a qualified person.

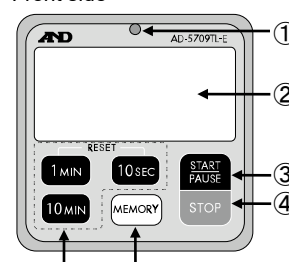
3. Precautions for Use

- Do not apply strong impacts, vibrations, or electrical shocks to the product as they may cause the product to malfunction.
- Do not use the product in places where it will be exposed to direct sunlight for a long time, in a closed car, or near a heater such as a stove. The operating temperature range of this product is 0 to 40°C. Use of the product beyond this temperature range may cause the product to malfunction.
- Avoid using the product in places where there are sudden changes in temperature, high temperature, high humidity, or high dust content.
- Although the product is waterproof, do not place the product in a place where the product will be wet for a long time or in water. If the buzzer is immersed in water, the sound volume may become low. In such a case, shake the product gently to remove the water.
- The waterproof performance of this product is equivalent to JISC 0920 Protection Class 7, and the product maintains waterproof performance for 30 minutes in static water at a depth of 1 m at room temperature.
- If the battery is low, the product may not operate normally. Replace the battery as described in "6. Installing / Replacing Battery".
- This product has a magnet attached on the rear side. Therefore, it is extremely dangerous to place this product near a person with an electronic medical device such as a pacemaker or any other electronic medical device as it may impair the normal operation of the medical device and may result in death.
- Places with strong magnetic or electric fields (TVs, induction cookers, microwave ovens, etc.) may affect the device. Please avoid using the product in such places.
- To prevent hazards, do not use the product in the presence of flammable gases.
- Do not open or disassemble the casing as this may cause the product to malfunction.

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4. Part Names and Functions

Front side



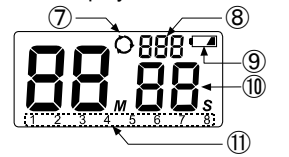
- Red LED lamp
 - LCD display
 - START / PAUSE key
 - STOP key
 - MEMORY key
- Press once to set the number of steps. Hold down to set the number of repetitions. You can set up to 8 steps. The number of repetitions can be set from 1 to 999 or infinite repetitions.

Each time you press the key, the values set for each step is displayed.

⑥ Alarm time / Repeat setting key (RESET)

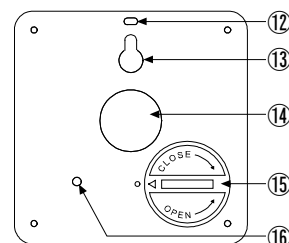
- When setting the alarm time. Each time you press one of the following keys, the timer time increases:
 - 10 SEC key: 10 seconds, 1 MIN key: 1 minute, 10 MIN key: 10 minutes
 - Hold down the key to increase quickly.
- When setting the number of repetitions. Each time you press one of the following keys, the number of repetitions increases:
 - 1 MIN key: 1 time, 10 MIN key: 10 times
 - Hold down the key to increase quickly.
- Reset
 - If you press 10 SEC and 1 MIN at the same time, all settings are cleared and reset to the initial state.

LCD display



- Repeat mark
- Number of repetitions display
- Low Battery mark
- Timer setting times
- Step number

Rear side



- Hole for strap
- Hanging hole
- Magnet
- Battery cover
- Buzzer

5. Product Placement

- The AD5709TL-E can be attached to a metal surface using the magnet on the rear side (If the metal surface is slippery, the product may slip off).
- You can attach a strap to the strap hole and hang the product from your neck (The strap is not included with the product).

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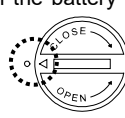
6. Installing / Replacing Battery

The battery is not installed in the product. Follow the steps below to insert the battery correctly. When the " " is displayed, replace the old battery with a new battery.

- If the main unit is wet, wipe off the water thoroughly before replacing the batteries.

Replacing battery

- Remove the battery cover on the back of the main unit by turning the cover counterclockwise (turn to the left) using the coin.
- Remove the old battery from the battery compartment.
- Insert the new CR2032 coin-cell battery in the direction of the arrow inside with the polarity + facing up.
- Put the battery cover back on. After confirming that the red O-ring is in place on the main body side, turn the battery cover until the arrow and the point match as shown in the figure on the right. If the battery cover is not installed properly, water may enter inside the product and cause a malfunction.



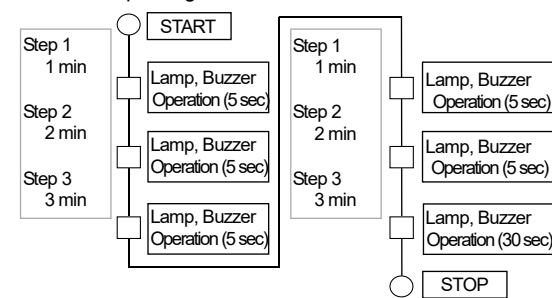
CAUTION

- If the product is not going to be used for a long time, remove the battery and store it.
- Be sure to use the specified battery (one CR2032 coin-cell battery).
- Be sure to insert the battery with the polarities (+/-) in the correct orientation. If the batteries are inserted with the polarities in the wrong orientation, not only will the product not work properly, but it may also cause the product to malfunction.
- Do not charge, short-circuit, disassemble, or expose the battery to fire as this may cause the battery to explode or leak.
- Keep batteries out of the reach of children.

7. Operations

While the product can be used as a normal timer, it can also be set up with up to 8 timers which are executed in sequential steps. Furthermore, you can repeat the set sequence of steps a set number of times.

As an example, if you set Step 1 to 1 minute, Step 2 to 2 minutes, Step 3 to 3 minutes, and the number of times to repeat the sequence of steps to 2 times, the resulting flow of events ends up being as shown below.

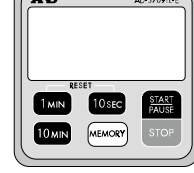


Timer setting

Be sure to hold the product in your hand when changing the settings. If the product is not used for about 15 minutes, the display disappears and the product enters Power Saving Mode. The display does not disappear during a count up/down operation. To start up the product and exit from Power Saving Mode, press any key.

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The timer can be set from 10 seconds to 99 minutes 50 seconds.



Each time you press one of the following keys the timer setting increases according to the key pressed:

- 10 SEC key: 10 seconds
- 1 MIN key: 1 minute
- 10 MIN key: 10 minutes

Hold down the key to increase value mode quickly.

Using as a normal timer

Example: Sets the timer to 12 minutes 30 seconds

- Press 10 MIN once. "10M00s" is displayed.
- Press 1 MIN twice. "12M00s" is displayed.
- Press 10 SEC three times. "12M30s" is displayed.
- Press START / PAUSE to start countdown.
- When the set alarm time has passed, the red LED lamp blinks and buzzer sounds for about 30 seconds.
- When the lamp blinks and the buzzer sound ends, the display returns to "12M30s".

Using the repeat operation of the timer

Example: Sets the timer for 3 minutes and repeats it 30 times.

- Press 1 MIN three times. "03M00s" is displayed.
- Press MEMORY once. (The setting is recorded after pressing and releasing the key.) The step number "1" is displayed in the bottom left and blinks.



- Press and hold MEMORY for at least 3 seconds. The mark (O) and blinking "001" are displayed in the upper right. The blinking "001" indicates the number of repetitions.

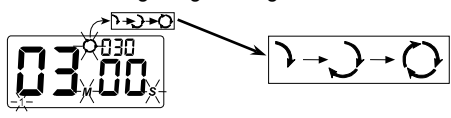


- Each time you press one of the following keys the number of repetitions increases:
 - 1 MIN key: 1 time, 10 MIN key: 10 times.

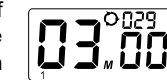
Hold down the key to increase quickly. In this example, press 10 MIN three times to set "030", and press MEMORY once to record the setting and stop blinking of the number of repetitions. If no operation is performed for 30 seconds while setting the number of repetitions, the blinking value will be set as the number of repetitions.



- Press START / PAUSE to start countdown and then step number "1", "M", "S", and "O" blink. The "O" mark changes as the following image during the countdown.



- After the elapse of alarm setting time (3 minutes), the red LED lamp blinks for about 5 seconds, the buzzer sounds, and the next countdown starts at the same time. When the next countdown starts, the number of repetitions in the upper right of the display becomes "029", which indicates that the remaining number of repetitions is 29 times.



- The timer repeats step 6 until the remaining number of repetitions is "001".
- When the remaining number of repetitions becomes "001", the final countdown operation starts. When the timer display becomes "00M00s", the red LED lamp blinks and buzzer sounds for about 30 seconds.
- When the lamp blinks and the buzzer sound ends, the display returns to step 4.

- The number of repetitions setting can be set 1 to 999 times and infinite number of times. If you press STOP while setting the number of repetitions, "----" will be displayed and operation will be repeated infinitely. The initial value of the number of repetitions is "001". If you reset the setting, it will return to the initial value.



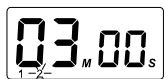
Using the repeat operation with the timer set in steps

Example: Sets the timer for 5 steps (1 minute, 3 minutes, 5 minutes, 7 minutes, 10 minutes) and repeats the steps 5 times.

- Press MEMORY once. The step number "1" is displayed in the bottom left and blinks.
- Press 1 MIN once. The time is set to "01M00s".
- Press MEMORY once. (The setting is recorded after pressing and releasing the key.) "00M00s" is displayed, and "1" stops blinking. Then the step number "2" is displayed and blinks.



- Press 1 MIN three times. The time is set to "03M00s".



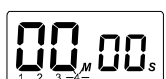
- Press MEMORY once. "00M00s" is displayed, and "2" stops blinking. Then the step number "3" is displayed and blinks.



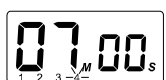
- Press 1 MIN five times. The time is set to "05M00s".



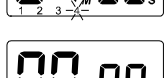
- Press MEMORY once. "00M00s" is displayed, and "3" stops blinking. Then the step number "4" is displayed and blinks.



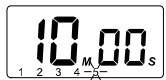
- Press 1 MIN seven times. The time is set to "07M00s".



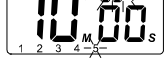
- Press MEMORY once. "00M00s" is displayed, and "4" stops blinking. Then the step number "5" is displayed and blinks.



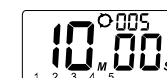
- Press 10 MIN once. The time is set to "10M00s".



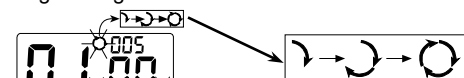
- Press and hold MEMORY for at least 3 seconds. The mark (O) and blinking "001" are displayed in the upper right.



- Set the number of repetitions with the blinking "001". Press 1 MIN five times to set the "005", and press MEMORY once to record the setting and stop blinking the number of repetitions. If no operation is performed for 30 seconds while setting the number of repetitions, the blinking value will be set as the number of repetitions. In this example, alarms are set for each of step number 1 to 5, and these set values are set as one-set and repeated 5 times.



- Press START / PAUSE to start countdown and then step number "1", "M", "S", and "O" blink. The "O" mark changes as the following image during the countdown.



- After the elapse of alarm setting time (1 minute), the red LED lamp blinks for about 5 seconds, the buzzer sounds, and the next countdown starts at the same time. When the next countdown starts, the "2" at the bottom blinks.



- After the alarm set in step number 3, 4 and 5 have operated in the same way as steps 13 and 14, the number of repetitions in the upper right of the display becomes "004", which indicates that the remaining number of repetitions is 4 times.

- When the remaining number of repetitions becomes "001" and "0" is displayed in the countdown of step "5", the red LED lamp blinks and buzzer sounds for about 30 seconds.

- When the lamp blinks and the buzzer sound ends, the display returns to step 12.

How to stop the blinking lamp and buzzer sound

Press 10 MIN to stop the lamp blinking and buzzer sounding. If it is the last countdown or is used as a normal timer, the alarm setting time is displayed again. If you are using a repeat setting or multiple settings, the blinking lamp and the buzzer sound will be stopped, but the timer operation will continue.

How to pause the timer operation

If you want to pause the timer during operation, press START / PAUSE. If you are using a repeat setting or step setting, you cannot pause the timer while the buzzer is sounding (except during the last countdown). Press START / PAUSE again to restart the timer operation.

How to stop the timer operation

If you want to stop the timer during operation, press STOP. The timer operation stops, and the alarm setting time is displayed again. If you are using a repeat setting or step setting, you cannot pause while the buzzer is sounding (except during the last countdown).

Resetting all timer settings

If you want to reset the alarm setting time to "00M00s", press 10 SEC and 1 MIN at the same time. It also resets the repeat setting and step setting.

Changing the alarm time setting

If the timer is running, stop it. Press 10 SEC and 1 MIN at the same time to reset all settings and then set a new alarm time.

Count-up function

This timer can be a count-up measure from 0 to 99 minutes 59 seconds. When the display reaches 99 minutes and 59 seconds, the timer counts up again from 00 minutes 00 seconds.

Starting the count-up operation

Press START / PAUSE to start the count-up operation when the display is "00M00s".

Pausing the count-up operation

Press START / PAUSE during counting up to pause the count-up operation. Then press START / PAUSE again to restart the count-up operation.

Stopping the count-up operation

Press STOP during counting up to stop the count-up operation and "00M00s" will be displayed.

8. Auto Power Off (Power saving mode)

If the timer is not used for about 15 minutes, the display disappears and the mode shifts to the power saving mode (The display does not disappear during counting up / down). To use it, press one of the keys.

9. Maintenance

To clean the product, squeeze a wet, soft cloth and wipe gently. Do not use thinner, benzene-like volatile solvents, or abrasives.

10. Specifications

- Alarm setting range: 00:00 to 99:59
- Display range : 00:00 to 99:59
- Auto power off (Power saving mode) : 15 minutes (when not using the timer)
- Buzzer sound duration : Approximately 30 / 5 second
- Buzzer volume : 65 dB @ 15 cm
- Waterproof performance : Equivalent to IPX7
- Battery : CR2032 x1
- Battery life : Approximately 1 year (when the alarm is used once a day)
- Dimensions : W68 x H68 x D16 mm (Except protrusions)
- Weight : Approximately 60 g (Include the battery)
- Operation environment : 0 to +40°C, 85%RH or less
- Storage environment : 0 to +60°C, 95%RH or less
- Accessories : This manual, Battery (for monitors)
- Material : Main unit / battery cover: ABS
LCD display plate: acrylic

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