

AD-5701A/AD-5701A-E

3-Channel 100-Hour Timer

Instruction Manual

1WMPD4002656A

© 2012 A&D Company, Limited.

No part of this publication may be reproduced, transmitted, or translated into any language in any form by any means without the written permission of A&D Company, Limited.

The contents of this manual and the specifications of the instrument covered by this manual are subject to change for improvement without notice.

Other trademarks and trade names are those of their respective owners.

Introduction

This manual describes how the product, the AD-5701A/ AD-5701A-E (3-Channel 100-Hour Timer) works and how to get the most out of the product. Read this manual thoroughly before using the product and keep the manual to hand for future reference.

Safety Precautions

All safety messages are in accordance with 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 the user about unsafe practices.
--	---

When using the AD-5701A/ AD-5701A-E, the following safety precautions should always be followed.

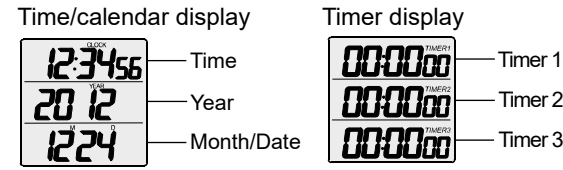
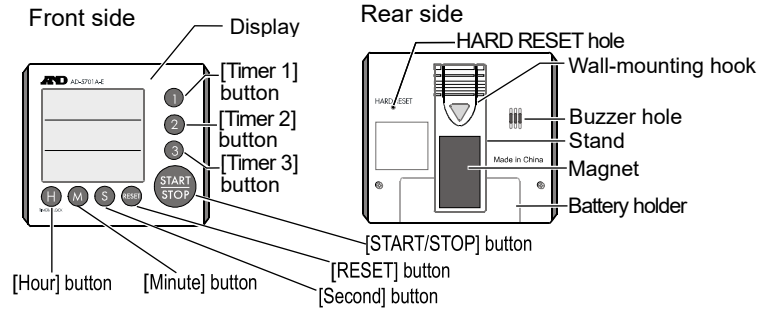
Caution

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

Precautions for Use

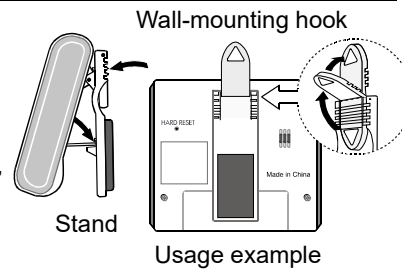
- This product is a precision instrument and should be handled with care. Please be careful not to drop the product or subject it to strong impacts, as this may cause damage or malfunction.
- When attaching a magnet to a metal surface, there is a risk of scratching the metal surface. Therefore, please test on an inconspicuous area before use.
- 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 can be sudden changes in temperature, high temperature, high humidity, or high dust content.
- Avoid suddenly moving the product from a hot environment to a cold one or vice versa. Sudden temperature changes may cause water droplets to form inside the product.
- Do not place the product in a humid or dusty place, as this may cause the product to malfunction. The operating humidity range of this product is 10 to 90% RH. Water accidentally entering the product may cause a malfunction. Do not place objects filled with water around this product.
- 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.
- The product is not waterproof. Do not use the product in places where it will be exposed to rain or water.

Part Names



Placement

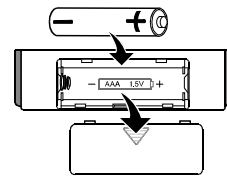
This product can be hung on a wall (screws not included), hung around the neck by putting a strap through the wall mounting hook (strap not included), attached to a metal surface with a magnet, placed upright on a tabletop using the stand, or clipped to a pocket or belt.



Installing / Replacing Battery

A battery is not installed at time of purchase. So first, put a battery into the battery holder as shown below. When the battery is low, the display may become dim, not display correctly, or the buttons may not work properly. If such problems are observed, replace the battery by following the steps given below. Settings such as time, date, and timer setting values are cleared when the battery is replaced, so they will need to be set again.

- Remove the battery cover on the back of the main unit.
- Remove the old battery.
- Install a new AAA battery, oriented correctly so that the polarities match those shown inside the holder.
- Put the battery cover back on.



Caution

- The included battery is for testing and its life may be short.
- If the product is not going to be used for a long time, remove the battery and store in a safe place.
- The battery life described in the specifications is based on when a new alkaline battery is used at an ambient temperature of 25 °C and the buzzer is used 3 times a day (approximately 90 seconds). Depending on the ambient temperature and the frequency of buzzer use, the battery life may become extremely short.
- Make sure to use an AAA (cell) battery only.
- 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.

Operations (Time and Date Settings)

Switching between Time & Date Display and the Timer Display

This product can show either the Time & Date display or the Timer display. The Time & Date display shows the current time and date (year, month, and day). The Timer display shows three timers. To switch between the displays, hold down the [Hour] button for 2 seconds or longer.

Setting the Time and Date

- While the time and date are displayed, press the [Minute] button and the [Second] button at the same time. The time display blinks and the device enters the Date setting mode.
 - Press the [Hour] button to advance the time by 1 hour. Hold the button down to advance the time quickly.



- Press the [Minute] button to advance the time by 1 minute. Hold the button down to advance the time more quickly.
 - Press the [Second] button to advance the time in 10-second increments. Hold the button down to advance the time more quickly.
- Press the [START / STOP] button once to change the year setting. The year display will start blinking.
 - Press the [Hour] button to advance the date by 1 year. Hold the button down to advance the date more quickly.
 - Press the [Minute] button to set the date back by 1 year. Hold the button down to set the date back more quickly.
 - Press the [RESET] button to reset the year display to the default, 2012. The setting range is from 2012 to 2099.
- Press the [START / STOP] button once again to change the month setting. The month display will start blinking.
 - Press the [Hour] button to advance the date by 1 month. Hold the button to advance the date more quickly.
 - Press the [Minute] button to set the date back by 1 month. Hold the button to set the date back more quickly.
 - Press the [RESET] button to reset the month display to the default, 1.
- Press the [START / STOP] button once again to change the day setting. The day display starts blinking.
 - Press the [Hour] button to advance the date by 1 day. Hold the button to advance the date more quickly.
 - Press the [Minute] button to set the date back by 1 day. Hold the button to set the date back more quickly.
 - Press the [RESET] button to reset the day display to the default, 1.
- Press the [Start / Stop] button once again to exit time and date setting and return the Time & Date display.

Note: The display goes back to the Time & Date display if buttons are not touched for 2 minutes during time and date setting.

Switching between 12 and 24-Hour Formats

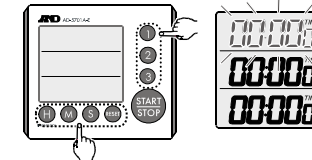
With the time and date are displayed, the 12 and 24-hour formats are switched between every time the [Hour] button is pressed. 'AM' or 'PM' is displayed in the 12-hour format.

Operations (Timer Settings)

Timer setting

Make sure to hold the product in your hand when setting up the timer. If the display shows the time and date, hold down the [Hour] button for 2 seconds or longer to switch it to the Timer display. A separate timer can be set for each of the three channels: Timer 1, Timer 2, and Timer 3. Each timer can be set to up to 99 hours 59 minutes and 59 seconds.

- When the Timer display is shown, hold down the [Timer] button of the channel you want to set for 2 seconds or longer. The time in that channel in the display starts blinking. The image on the right is an example for Timer 1. The [Hour] button advances the timer by 1 hour, the [Minute] button by 1 minute, and the [Second] button by 1 second. Press and hold each button to advance the time more quickly. Press the [RESET] button to reset the timer to 00:00:00.
- After setting up the timer, press the [Timer] button of the channel that was set. The display stops blinking and the setup is complete.
 - If no buttons are pressed for 2 minutes or longer during the setup, the Timer 1 display stops blinking and the setup is stopped. To set up a timer again, restart from step 1 above.

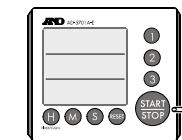
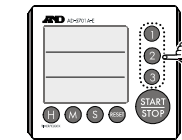


How to Use the Timer

The three channels (Timer 1, Timer 2, and Timer 3) can be used independently. Also, all three channels can be started simultaneously.

o To Use Timer 1, Timer 2, and Timer 3 Independently

- When the Timer is displayed, set the time to the channel you want to use by following the steps for 'Timer Setting.'
 - Press the [Timer] button of a channel which the timer has been set to start countdown. Press the [Timer] button of a channel which a timer has not been set to start count-up. When a countdown ends, a blinking 'TIME'S UP' message is shown on the left side.
 - Press the same [Timer] button as done in step 2 to stop countdown/count-up.
- o To Start Timer 1, Timer 2, and Timer 3 Simultaneously
- When the timer is displayed, follow the steps for 'Timer setting' to set a timer for Timer 1, Timer 2, and Timer 3.
 - Press the [START / STOP] button to start the countdown of Timer 1, Timer 2, and Timer 3 simultaneously. A count-up starts for channels that do not have a timer set, and a blinking 'TIME'S UP' is shown on the left side.
 - Press the [START / STOP] button while the countdown/count-up is being performed to stop the countdown/count-up of Timer 1, Timer 2, and Timer 3. Press the [Timer] button of a channel while



its countdown/count-up is being performed to stop the countdown/count-up of that channel only.

Operation When the Set Time of the Timer Is Reached

(1) When the set time is reached, 'TIME'S UP' is displayed on the left side of the channel that has finished. Then, the count-up starts and the buzzer rings for approximately 30 seconds. The buzzer types vary depending on each channel as follows.

Timer 1: beep, beep, beep...

Timer 2: beep-beep, beep-beep, beep-beep...

Timer 3: beep-beep-beep, beep-beep-beep, beep-beep-beep...

- * Although the buzzer automatically stops in approximately 30 seconds, the count-up does not automatically stop.
 - * A buzzer stops beeping when the buzzer for another channel starts beeping.
- (2) To stop a buzzer, press any button ([Hour]/[Minute]/[Second]/[RESET]) other than the [START / STOP] button. The buzzer for a channel that is ringing stops, and the count-up stops as well. Other channels continue their countdown/count-up. Please note that the timers for all three channels stop along with the buzzer if you press the [Start/Stop] button while the buzzer is beeping.

Using the Same Timer Settings Again (Reload)

- Press the [RESET] button, and '00:00:00' is displayed for the channel which timer operation is stopped.
- Press the [Timer] button of the channel that is displayed as '00:00:00' in step 1 to see the previous setting value. When '00:00:00' is displayed for all channels, press the [Start/Stop] button to see the previous setting values for all channels.
- Press the [Timer] button of the same channel again to start the countdown.

Hard Reset

If this product stops working properly, it can be reset by the following two steps.

- Remove the battery. Wait for 30 seconds and put the battery back.
- Press the HARD RESET hole on the back of the product with something pointed (such as a paperclip).

* When a hard reset is done, the time, date, and timer setting values are all reset to the factory settings. Please set them again.

Maintenance

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

Troubleshooting

Nothing is displayed	Make sure there is a battery in the battery holder. If there is, it may have been depleted. Replace it with a new battery.
The display is too dim	The remaining battery life is short. Replace it with a new one.
The product does not work properly	The internal circuitry may have stopped working. Reset the timer. When the battery is low, the product may not work properly, so please replace the batteries.

Specifications

Display style	: Switching between 'Time & Date (year, month, day)' and 'Three-channel Timer'
Alarm setting range	: 00:00:00 to 99:59:59
Number of channels	: Three
Timer functions	: Count-up, Count-down
Buzzer sound duration	: 30 seconds
Buzzer volume	: Approximately 70dB at 10cm
Time display	: Current time (hour:minute:second), switchable between 12 and 24-hour formats Year Month, and day
Accuracy	: ±1 second per day
Battery	: 1 AAA (cell) battery
Battery life	: Approximately 1 year (when an alkaline battery is used and the alarm is operated for 90 seconds a day)
Dimensions	: 80(W)×70(H)×30(D)mm
Weight	: Approximately 85g (including a battery)
Operation environment	: 0 to 40°C, 10 to 90%RH (without condensation)
Storage environment	: -10 to 50°C, 10 to 95%RH (without condensation)
Items included	: Battery (for monitoring), instruction manual
Material	: Upper cover, lower cover, side panel, stand, battery cover, wall-mounting hook: ABS Buttons: Rubber Metal parts for the stand: SUS304 Screws: SUS430