



Digital timer

USER GUIDE & WARRANTY



After Sales Support

Now you have purchased a Delta product you can rest assured in the knowledge that as well as your 3 year parts and labour warranty you have the added peace of mind of dedicated helplines and web support.

AFTER SALES SUPPORT

UK / N.IRELAND HELPLINE NO 0800 328 6020
REP. IRELAND HELPLINE N O 00800 4467 5888
WEB SUPPORT info@dariolondon.com

MODEL NO.: GT-ZSd-02

CONTENTS

- 3 INTRODUCTION
- 3 GENERAL SAFETY INSTRUCTIONS
- 4 FUNCTIONALITIES
- 4 CONTENTS OF PACKAGE
- 5 OVERVIEW OF THE DIGITAL TIMER
- 6 GETTING STARTED
- 8 SETTING THE ACTIVATION AND DEACTIVATION TIMES
- 10 OTHER FUNCTIONS
- 12 CONNECTING THE DEVICE / USAGE
- 13 CLEANING
- 13 TROUBLESHOOTING
- 14 TECHNICAL DATA
- 14 DECLARATION OF CONFORMITY
- 14 DISPOSAL
- 17 WARRANTY



INTRODUCTION

Congratulations on choosing a DELTA product

By doing so you now have the assurance and peace of mind that comes with purchasing a product made by one of Europe's leading manufacturers.

All products brought to you by DELTA are manufactured to the highest standards of performance and safety, and, as part of our philosophy of customer service and satisfaction, are backed by our comprehensive 3 Year Warranty.

We hope you will enjoy using your purchase for many years to come.

GENERAL SAFETY INSTRUCTIONS



Carefully study the information below and keep these operating instructions at hand in case you should want to check something later. If you hand the device on to other persons, also include these operating instructions.

Intended use

The timer switch serves to automatically switch on and off electrical devices and is suited for indoor use only. The timer switch is designed for domestic use.

Devices that may bear risks when being used without operator attention (e.g. terrace heater, iron, fan heater, etc.) must not be connected to the switch.

Danger to children

- Keep children away from packaging material. Danger of choking if swallowed.
- Risk of injury
- Do not use the timer switch in explosion-prone surroundings, e.g. in rooms with combustive gases or dusts.

Danger caused by electricity

- Connect the device to a properly installed mains outlet with earthing conductors whose voltage corresponds to the "Technical data".
- Ensure your hands are dry when operating the timer switch.
- Maintain free access to the wall outlet.
- Do not use the timer switch if it is obviously damaged or does no longer function correctly.
- Unplug the timer switch from the mains before cleaning the switch or its connected device.
- Do not modify the timer switch. Only have a electrician's make repairs if necessary. Adhere to the warranty conditions

- Do not use an extension cord to connect the timer switch. Always mind to connect the timer switch directly into a mains outlet with earthing conductors.

Caution - risk of material damage

- Devices with a power consumption of more than 13 amp (= 3.120 watt ohmic load) or 2 amp (= 460 watt inductive, e.g. motor-driven devices, transformers) must not be connected.
- Protect the timer switch against humidity, direct sunlight and extreme heat. Do not plug the timer switch in power outlets which are situated nearby damp sources.
- Do not connect the timer switch in series with other timer switches or similar appliances.
- Do not connect heavy pluggable power supply units to the timer switch. Otherwise, the wall plugs of the wall outlet may be mechanically overloaded.
- You must not use hard, scratching or abrasive cleaning agents or similar to clean the switch, as the surface may become scratched.

FUNCTIONALITIES

- 20 activations/deactivations per day can be programmed (a max. of 140 switchings per week)
- All popular block switchings: Monday to Sunday
- Daylight saving time / Standard time
- Countdown function
- Random switching
- Permanent time display
- Implemented rechargeable battery as auxiliary path

CONTENTS OF PACKAGE

- Indoor Digital Timer
- User guide & Warranty

OVERVIEW OF THE DIGITAL TIMER

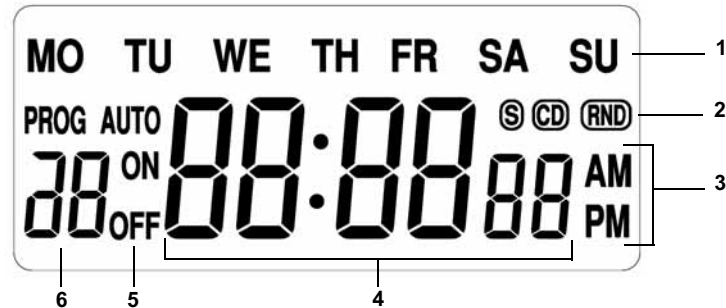


Buttons of the control panel



R	Resets device to delivery condition
SET	Enables setting mode, accepts set value
-	<ul style="list-style-type: none"> • Calls countdown function • Starts and stops countdown • Navigates in the menu to the left • Decreases the displayed value
+	<ul style="list-style-type: none"> • Opens the setting mode for enterin the activation and deactivation times • Navigates in the menu to the right • Increases the displayed value
⌚	Switches the device to clock time mode
RANDOM	Activates/deactivates the random function
CD	Starts and stops the countdown function
M	Manually activates and deactivates the timer switch

Displays




1	Weekday abbreviation
2	Special functions: S - Daylight saving time, CD - Countdown function, RANDOM - Random function
3	Display of time of day (only with 12-hour format being selected)
4	Time in hours, minutes and seconds
5	Operating mode (On, Off, auto function)
6	Programme number

GETTING STARTED


Notes on the rechargeable battery

- The timer is equipped with a rechargeable battery which is permanently charged during normal operation via the mains socket.
- When being delivered, the battery of the timer switch is already charged. This enables for immediate setting of date and time following unpacking, see page 7.
- In case of power blackout or if unplugging the timer switch from the power outlet, the rechargeable battery stores the settings made for approx. 100 hours.
- If the timer switch cannot be connected to the mains for more than 4 days, the rechargeable battery is discharged and all previously stored settings (if existing) are deleted.
- In this case, connect the timer switch to a mains socket for 14 hours to again charge the battery. Then you can effect the required settings as usual.

Setting date and time

 Data input can be made prior or after the device has been plugged into a mains socket. As soon as the timer switch is connected to the mains, power supply is via the power supply system.



1. Keep **SET** pressed until the weekday abbreviation flashes in the display.
2. Set the current day of the week by pressing the + or - buttons.

 - The days of the week are displayed in English. MO = Monday, TU = Tuesday, WE = Wednesday, TH = Thursday, FR = Friday, SA = Saturday, SU = Sunday.
- If you press the second button more than 10 seconds later than the first one, the appliance switches back to general operation and you are to repeat the entire process.

3. Press **SET**. The hour display flashes.
4. Use buttons +/ or – to specify the correct hour. By keeping the + or - button pressed, forward of the shown values for hours and minutes is speeded up.
5. Press **SET**.
The minutes display flashes.
6. Use buttons +/ or – to specify the correct minutes.
7. Press **SET** to complete the process.



Changing the time format




The time is input and displayed in 24-hour format by default. Alternatively, you can choose the 12-hour format. Then, the morning hours are displayed with AM (ante meridiem = before noon) and the hours in the afternoon with PM (post meridiem = after noon).

 To be able to change the time format, the device is to be in time mode (shortly press button  once, if applicable).

- ▶ Keep  pressed for approx. three seconds to switch the time format.

Setting daylight saving time



 The device is to be in time mode (shortly press  once, if applicable).

1. Keep the  button pressed.
2. Press the - button.
The display shows  and the time is set ahead for one hour. The daylight saving time function is now active.
3. To reset to standard time, again keep the  button pressed. Then press button -.

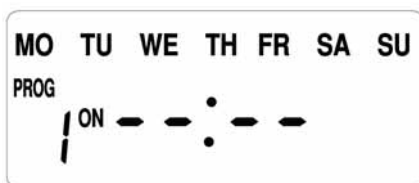
SETTING THE ACTIVATION AND DEACTIVATION TIMES

This timer switch allows for storage of a total of 20 programme numbers with one activation and one deactivation time each.

Important information

- To correctly input the times, the device has to be in time mode (shortly press button  once, if applicable).
- To cancel the process, press the  button once as well.
- If you press **M** when inputting a time, the currently displayed time setting is deleted. The device does **not** switch to time mode and you can enter a different time directly.
- If you press the second button more than 10 seconds later than the first one, the appliance switches back to general operation and you are to repeat the entire process.
- The display is to show *A U T O* to allow for execution of the programmed times. See page 11 for details on the operating modes shown in the display.

Setting the activation and deactivation times



1. Press the + button.
1 and 0 flash in the display.
2. Press **SET** to specify the day for which the activation time is to be applied.
The weekday abbreviations flash in the display.
3. Use buttons + or - to specify the day(s) the activation time is to be applied for.
 - You can either choose a single day, e.g. **MO**.
 Or you pick one of the following combinations:
 - Monday to Friday (**MO, TU, WE, TH, FR**)

- Saturday and Sunday (**SA, SU**)
 - Monday to Saturday (**MO, TU, WE, TH, FR, SA**)
 - Diverse 3-day combinations (**MO, WE, FR** or **TU, TH, SA** or **MO, TU, WE** or **TH, FR, SA**).
 - All days of the week (**MO, TU, WE, TH, FR, SA, SU**).
4. Press **SET** to confirm your weekday selection.
The hour display flashes.
 5. Use buttons + or - to set the desired activation hour.
 6. Press **SET**.
The minutes display flashes.
 7. Use buttons + or - to set the desired activation minute.
 8. Press **SET**.
1 and 0 N again flash in the display.

Input of the first activation time is now complete. Immediately afterwards you specify the time the connected device is to be switched off again. The procedure is the same.

1. Press the + button.
1 and 0 F F flash in the display.
2. Press **SET** and use the + or - buttons to specify the desired day.
3. Press **SET**. Then use + or - to set the desired hour for switching off.
4. Press **SET**. Then use + or - to set the desired minute for switching off.
5. Press the + button to set the next activation time (display 2 and 0 N) and proceed as described or press the ⌚ button if you do not want to apply further settings at first. The specified time is then shown in the display again.

Setting notes

- You can specify any combination of activation and deactivation times, e.g. MO, WE, FR as activation days and MO, TU, WE as days for deactivation. But always reflect upon whether your combination makes sense. Always specify the times as to be able to later reconstruct why a device suddenly switches on or off.
- If you wish to set inexplicable times for activation and deactivation, e.g. during longer absence, you can use the implemented random generator, see page 10.
- By repeatedly pressing the + button you are successively displayed all activation and deactivation times.


Deleting single switching functions

If you are sure that you do no longer need a certain programme, you can delete it. This programme number is without function, while the others switch on and off as usual.



The device is to be in time mode (shortly press ⌚ once, if applicable).

1. Press + until the respective programme number is displayed, e.g. 4 and 0 N.

2. Press **M**.
The activation time is deleted, the display shows --:--.
3. Again press **+**.
The deactivation time of the selected programme flashes in the display.
4. Press **M**.
The deactivation time is deleted, the display shows --:--.
5. Finally, press  or wait some seconds until the timer switch has switched back to time mode automatically.

OTHER FUNCTIONS

Using the random function


The timer switch has an implemented random generator. With this setting, a connected consumer (e.g. a lamp) is automatically switched on and off at random intervals in an offset of up to 30 minutes to the programmed time.

Only those programmed times are taken into account, at which the consumer is activated for more than 30 minutes. The duty cycle is not changed by the random function.

Example:

Normally, the timer switch would switch on at 13:00 and switch off again at 14:00. Due to the random function, there is time offset, though. Thus, the timer switch may switch on at 13:12 and switch off again at 14:12, for example.





- To activate the random function, the device is to be in time mode (shortly press button  once, if applicable).
- With the random function being active, the countdown function is functionless.
- Only if you programmed activation and deactivation times, the random function operates.

1. Press **RANDOM** to activate this function.
The display shows **RND**.
2. To quit the random function, again press **RANDOM**.
RND is no longer visible in the display.

Using the countdown function

This function switches off a connected consumer following an adjustable time.




- To correctly input the times, the device is to be in time mode (shortly press button  once, if applicable).
- To cancel the process, press the  button once as well.
- If you press the second button more than 10 seconds later than the first one, the appliance switches back to general operation and you are to repeat the entire process.

1. Press **-**.
The display shows **00:00** and **CD**.
2. Press the **SET** button.
The hours display starts flashing.
3. Specify the hours of the countdown using the **+** or **-** buttons.
4. Press **SET**.
5. Consecutively set the minutes and seconds of the countdown, as described beforehand.
6. Press the **CD** button.

The connected consumer is supplied with power. The countdown starts.

As soon as the countdown is at zero, power supply is interrupted and the connected device is again disconnected from the mains. The specified time is shown in the display again.

Please note:

- Pressing the **CD** button shortly stops and restarts the countdown. If you do not repeatedly press the **CD** button after 10 seconds, the timer switch returns to standard time mode.
- Pressing the  button with the countdown running shortly displays the time, before the device returns to countdown mode.
- Following expiration of the countdown the set countdown time is deleted automatically. It has to be input again for a next countdown.

Manually switching on and off

You can switch on or off the timer switch at any time by pressing **M**. Manually switching on and off precedes all other device functions.

Please note the display:

<i>ON</i>	<p>The timer switch was switched on manually</p> <ul style="list-style-type: none"> The input activation and deactivation times are inactive, the timer switch does not switch off automatically.
<i>AUTO / ON</i>	<p>The timer switch was switched on automatically</p> <ul style="list-style-type: none"> The timer switch operates in accordance with the set activation and deactivation times
<i>OFF</i>	<p>The timer switch was switched off manually</p> <ul style="list-style-type: none"> The input activation and deactivation times are inactive, the timer switch does not switch on automatically.
<i>AUTO / OFF</i>	<p>The timer switch was switched off automatically</p> <ul style="list-style-type: none"> The timer switch operates in accordance with the set activation and deactivation times

- To return the timer switch to auto mode, press the **M** button until the display shows *AUTO / ON* or *AUTO / OFF*.

Resetting the timer switch

A reset restores the timer switch to its delivery condition. All settings and data entered are deleted.

- Use a pointed device (ball-point pen or similar) to press the **R** button.

Again enter time and date then, see as of page 6.

CONNECTING THE DEVICE / USAGE



ATTENTION

- Devices that may bear risks when being used without operator attention (e.g. terrace heater, iron, fan heater, etc.) must not be connected to the switch.
- Devices with a power consumption of more than 13 amp (= 3.120 watt ohmic load) or 2 amp (= 460 watt inductive, e.g. motor-driven devices, transformers) must not be connected.

1. Connect the timer switch to a mains outlet with earthing conductors whose voltage corresponds to the "Technical data".
2. Insert the plug of the other device (aquarium pump, lamp, radio, etc.) into the outlet of the timer switch.
3. Turn the connected device on.

The device connected to the timer switch now automatically switches on and off according to the specified times.

CLEANING



ATTENTION

Unplug the timer switch from the mains before cleaning the switch or its connected device.

- ▶ When required, wipe the timer switch clean with a slightly moistened cloth.

TROUBLESHOOTING

Fault	Possible causes and solutions
The connected device remains deactivated.	<ul style="list-style-type: none"> - Is the connected device plugged in correctly and switched on? - Are both timer switch and device plug completely plugged in? - Were time and date of the timer switch correctly set? - When using the device the last time, did you switch on or off the timer switch manually? Check whether the display shows <i>AUT O</i> (press M, if applicable).
The connected device is switched on at the wrong time.	<ul style="list-style-type: none"> - Is the set time correct? - Random function active?
The connected device remains switched on.	<ul style="list-style-type: none"> - Is the deactivation time correctly set? - Did you alter the mode afterwards? Check whether the display shows <i>AUT O</i> (press M, if applicable).
The display has "frozen", the timer switch does not react to keystrokes.	<ul style="list-style-type: none"> - Reset the timer switch, see page 12.

TECHNICAL DATA

Designation:	GT-ZSd-02 Indoor Digital Timer
Power supply:	230 V ~ 50 Hz
Protection class:	1
Switching load:	13 A (ohmic load) / 2 A (inductive load)
Battery:	NiMH 1.2 V
Ambient temperature:	-10 °C to +40 °C
Circuit breaker:	Micro interrupt
Ohmic load:	max. 3.120 Watt

DECLARATION OF CONFORMITY

Conformity of the product with the standard as required by law is guaranteed.
See www.gt-support.de on the internet for the complete version of this declaration of conformity.

DISPOSAL



Sort packaging by type before disposal. Do not throw the appliance into your household waste. Remove the batteries from the device, if it cannot be used any longer. Ask the waste disposal service provider in charge for the required disposal means.



Batteries and rechargeable batteries are not be disposed of in household waste. Users are obliged by law to give batteries or rechargeable batteries to a collection organised by their municipality, district or local trade. Thus, all batteries and rechargeable batteries can be disposed of in an environmentally friendly manner.

Cd
Hg
Pb Batteries and rechargeable batteries containing hazardous substances are marked by this icon and chemical symbols (Cd for cadmium, Hg for mercury, Pb for lead).

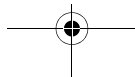
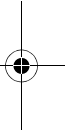
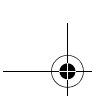
Disassembling the rechargeable battery

The battery is to be removed before disposing the device. Leave the timer switch for some days before disassembling the battery in order to have the battery discharged.

The battery must only be disassembled for disposal. Following battery removal, the timer switch must no longer be used.



1. Use a cross recess screwdriver to completely unscrew the two screws at the back of the device.
2. Use a screwdriver to pull down the catch in the upper area and take off the top of the device.
3. Remove the battery (see arrow).
You may require some force to do so.
4. Dispose of housing parts and battery in compliance with environment.



WARRANTY

WARRANTY CERTIFICATE

11/10 Model: Indoor Digital Timer GT-ZSd-02

WARRANTY
36
MONTHS

The appliance has been manufactured with the greatest care.

The warranty period is three years from the date of purchase. Please retain the sales receipt as proof of purchase as without it the warranty claim cannot be processed.

During the warranty period, the sales receipt and the completed warranty card with a description of the fault must be returned once you have contacted the service centre by phone. A new appliance will be returned.

This warranty is in addition to your statutory rights. Your statutory rights are not affected.

This warranty does not apply in cases of damage caused by accident, improper use, abuse and force majeure.

This warranty will be invalidated if the appliance is tampered with in any way whatsoever.

For warranty claims, please first contact us by telephoning the service centre free phone number or email:

Dario London Service Centre
PO Box 70
Chislehurst
BR7 5YH
UK
UK: 0800 328 6020
Ireland: 00800 4467 5888
info@dariolondon.com

If the appliance has to be returned to us, it must be packed correctly as we cannot accept any responsibility for damage caused in transit.



INDOOR DIGITAL TIMER

3 YEAR WARRANTY CARD

Name _____

Address _____

Email _____ Tel No _____

Model No. _____

Location of purchase _____

Please send your completed Warranty Card to:

UK

Dario London Service Center

PO Box 70

Chislehurst

BR7 5YH

E43247

11/10