



This manual ensures safe and efficient use of the timer (referred to as “device” in the following). This manual is a component of the device and must remain accessible at all times for everyone who uses the device.

Everyone who uses the device must have read and understood this manual before commencing any work. The basic prerequisite for working safely is compliance with all safety instructions and usage instructions specified in this manual. Furthermore, the local accident prevention regulations and the general safety regulations in the area in which the device is operated apply.

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Overview

Design and function

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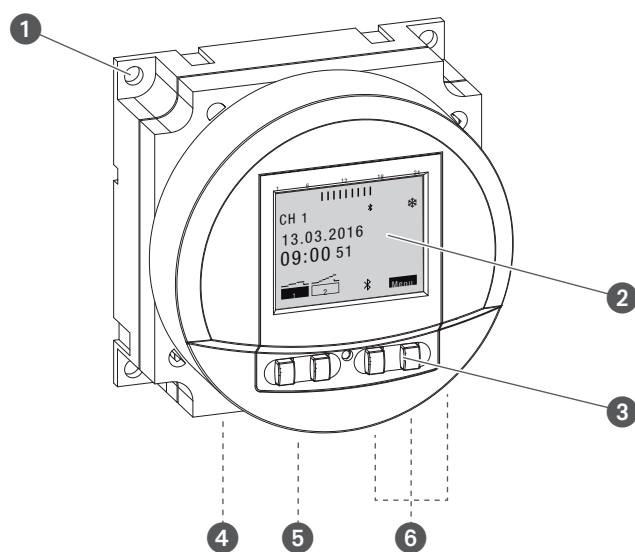


Fig. 1: FMD smart timer

- ① Holes for flush mounting
- ② Display
- ③ Control buttons
- ④ Terminal for phase
- ⑤ Terminal for neutral conductor
- ⑥ Terminals for channel 1

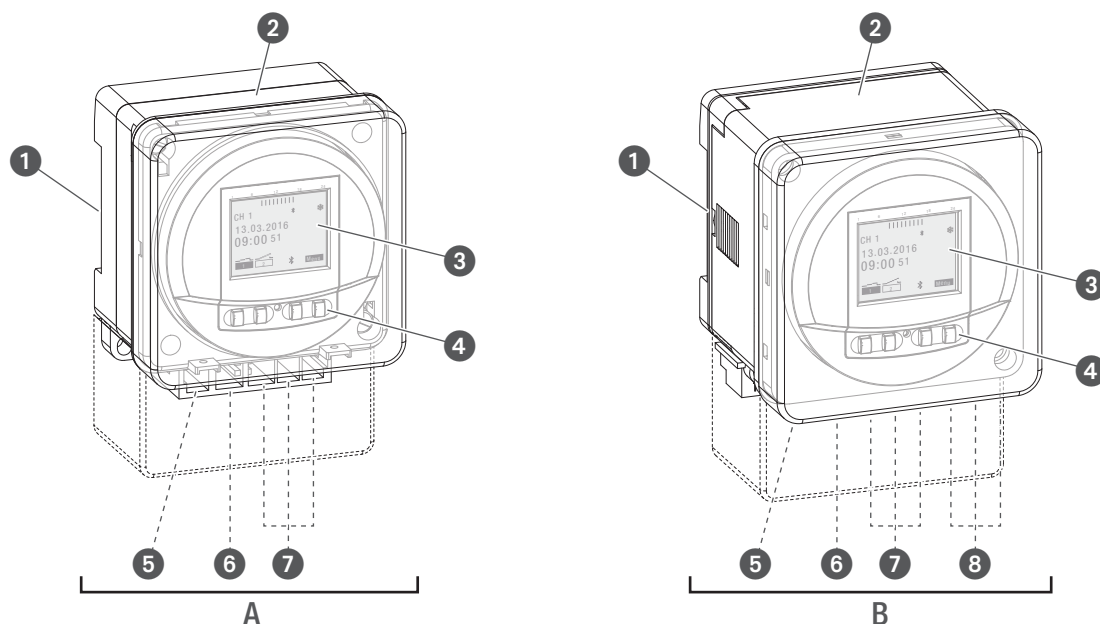


Fig. 2: tactic smart timer

- A 1-channel tactic smart timer
- B 2-channel tactic smart timer
- ① Click system for installation on a DIN rail
- ② Glass
- ③ Display
- ④ Control buttons
- ⑤ Terminal for phase
- ⑥ Terminal for neutral conductor
- ⑦ Terminals for channel 1
- ⑧ Terminals for channel 2 (only for 2-channel variant)

Description of function

Depending on the type, the timer is suitable for flush mounting, surface mounting or attachment to a DIN rail by means of a click system (↪ Chapter „Installation“ on page 68); the timer activates the connected device. The timer has one or two channels (depending on the type) and can be operated via a display (Fig. 1/②, Fig. 2/③) with four control buttons (Fig. 1/③, Fig. 2/④). The timer can be programmed manually or via a mobile device. The radio signal frequency is 2.4 GHz and the maximum transmission power is 1.8 mW. The timer can only be programmed after it has been connected to an external power supply.



Technical data (DIN EN 60730-1)

Mode of operation	1.B
Pollution degree	2
Rated impulse voltage	4000 V

The technical data for the devices described in this manual can be found at:

FMD smart: <https://graesslin.de/produkt-kategorie/zeitschalttechnik/zeitschaltmodule>

Tactic smart: <https://graesslin.de/produkt-kategorie/zeitschalttechnik/universalschaltuhren>

Possible uses

These functions can be programmed on the timer:

- Date-independent programming
- Date-specific programming
- On, off programming
- Pulse, cycle and random programming
- Sunrise and sunset-specific programming
- Creating programmes via mobile devices



Display and control elements

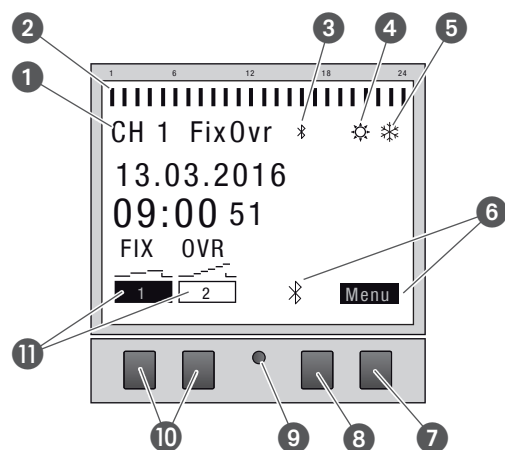


Fig. 3: Display layout

- ① Channel
- ② Programmed switching times
- ③ Bluetooth
- ④ Summer time
- ⑤ Winter time
- ⑥ Function displays of the buttons on the right
- ⑦ Menu button
- ⑧ Bluetooth button
- ⑨ Reset button
- ⑩ Buttons on the left
- ⑪ Function displays of the buttons on the left



Function displays of the two buttons on the right (Fig. 3/7 + 8)

Display	Function
Menu	Enter programming mode.
Bluetooth	Pressing this button activates the Bluetooth function and enables a connection to be established.
ESC	Press briefly = goes back one step. Press and hold (2 seconds) = back to automatic mode.
OK	Make the selection and apply it.
<	Undo the last input, e.g. when entering the time.

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Function of the two buttons on the left (Fig. 3/10)

Display	Function
	Operating mode ON (FIX) – the channel is switched on permanently.
	Operating mode OFF (FIX) – the channel is switched off permanently.
	Override mode – the current programme is overwritten up to the next automatic command.
	Automatic mode ON – the channel is switched on on the basis of the programmed switching time.
	Automatic mode OFF – the channel is switched off on the basis of the programmed switching time.
^	Page up in the menu
v	Page down in the menu.
-	Press briefly = reduce the displayed value (hour, minute, second) by 1. Press and hold (2 seconds) = fast cycling. Reduce or deselect in the case of channel and day selection.
+	Press briefly = increase the displayed value (hour, minute, second) by 1. Press and hold (2 seconds) = fast cycling. Increase or select in the case of channel and day selection.



Menu structure

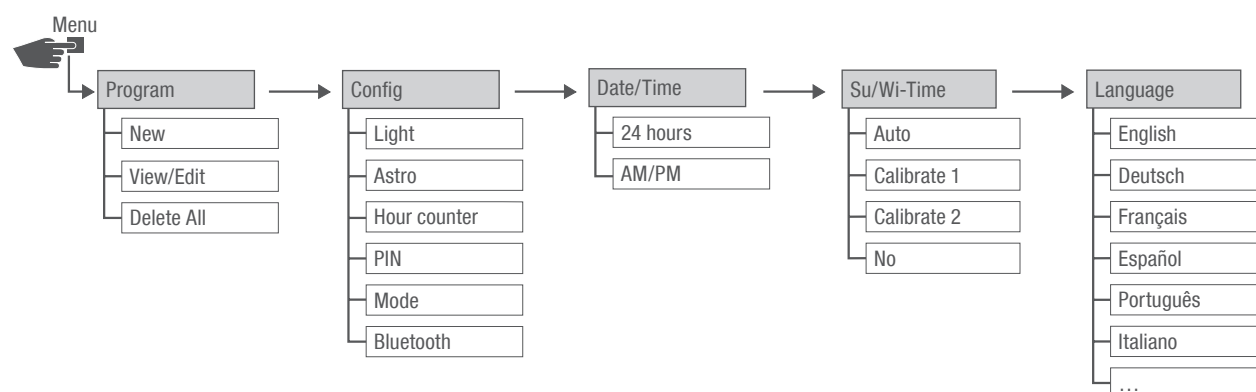


Fig. 4: Menu structure

The menu structure appears on the display when you press the menu button (Fig. 3/7).

Downloading the app



The timer can be programmed using a mobile device.

The mobile app is available for Android or for iOS devices; alternatively, scan the QR code shown here and install the app.



Safety

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Safety instructions

Safety instructions are indicated in this manual by symbols. The safety instructions are introduced by signal words that express the extent of the danger.



WARNING!

This combination of symbol and signal word indicates a potentially dangerous situation that may result in death or severe injuries if the situation is not avoided.



CAUTION!

This combination of symbol and signal word indicates a potentially dangerous situation that may result in minor or slight injuries if the situation is not avoided.



NOTE!

This combination of symbol and signal word indicates a potentially dangerous situation that may result in material damage if the situation is not avoided.



**ENVIRON-
MENTAL
PROTECTION!**

This combination of symbol and signal word indicates potential dangers for the environment.

Tips and recommendations



This symbol highlights useful tips and recommendations, as well as information for efficient and fault-free operation.

Intended use

- The timers are intended solely for switching electric devices in private and commercial areas, provided this does not infringe on the intended use of these devices.
- Depending on their type, the timers are intended exclusively for flush mounting, surface mounting or installation on DIN rails.



- Only use the timers in dry rooms and do not install close to devices with inductive discharge (motors, transformers, etc.).

The intended use also includes compliance with all information specified in this manual.

Any use other than the intended use is considered incorrect use. The legal warranty is voided by any interference with, or modifications to, the device.



WARNING!

Danger due to insufficient wire cross-section!

If wires with an insufficiently large cross-section are used, short circuits or fires may occur.

- Only use terminals with a cross-section between 1 mm² and 2.5 mm² for wires.



NOTE!

Damage to the timer due to incorrect installation location!

If installed in an unsuitable location, the timer may be damaged.

- Only use the timer in dry rooms and do not install close to devices with inductive discharge (motors, transformers, etc.).
- The timers are intended exclusively for flush mounting, surface mounting or installation on DIN rails.

Residual risks

The device is state-of-the art and designed in accordance with current safety requirements.

However, residual risks remain that require caution when using the device. The residual risks, and the conduct and measures they require, are listed in the following.



Electric current



WARNING!

Risk of fatal electric shock!

Improper assembly and installation of the device can lead to life-threatening electrical voltages.

- Only allow a qualified electrician to install and connect the device.

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Personnel requirements



Qualified electrician

Professional training, knowledge and experience, and knowledge of the relevant standards and regulations allows qualified electricians to perform work on electrical systems and to identify, and avoid, potential dangers of their own accord.

Qualified electricians are specifically trained for the work environment in which they work, and are familiar with the relevant standards and regulations.

Installation

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WARNING!

Risk of fatal electric shock!

Improper assembly and installation of the device can lead to life-threatening electrical voltages.

- Only allow a qualified electrician to install and connect the device.

FMD smart – flush mounting

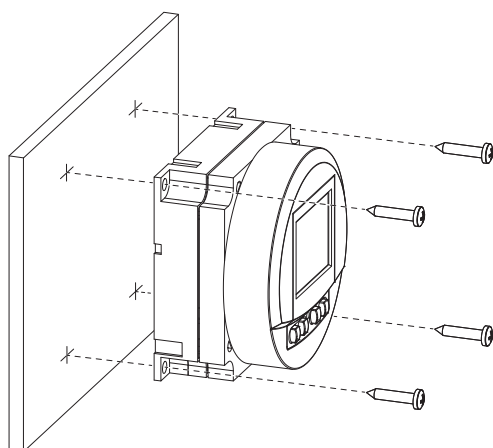


Fig. 5: FMD smart – flush mounting

tactic smart – surface mounting

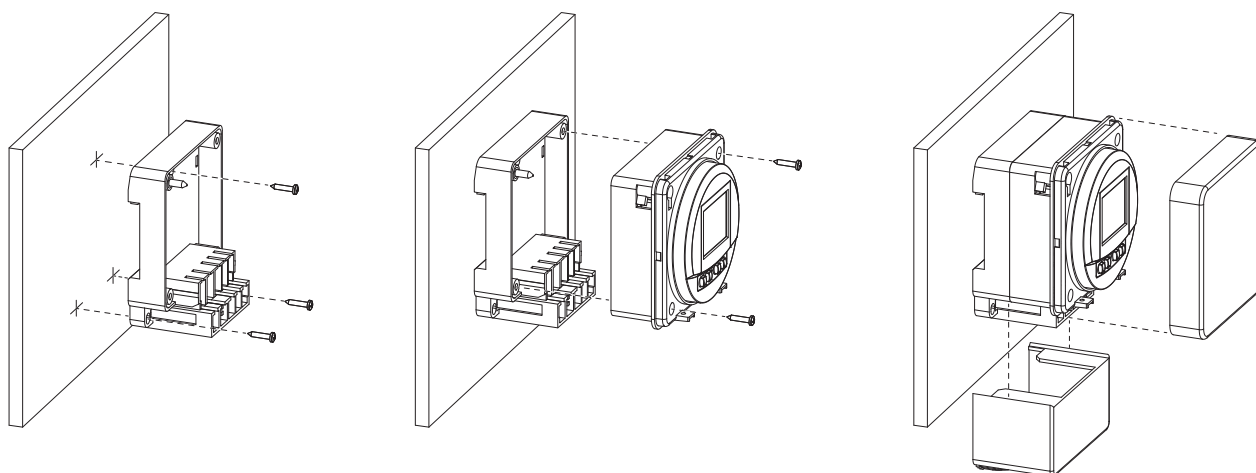


Fig. 6: tactic smart – surface mounting

tactic smart – flush mounting

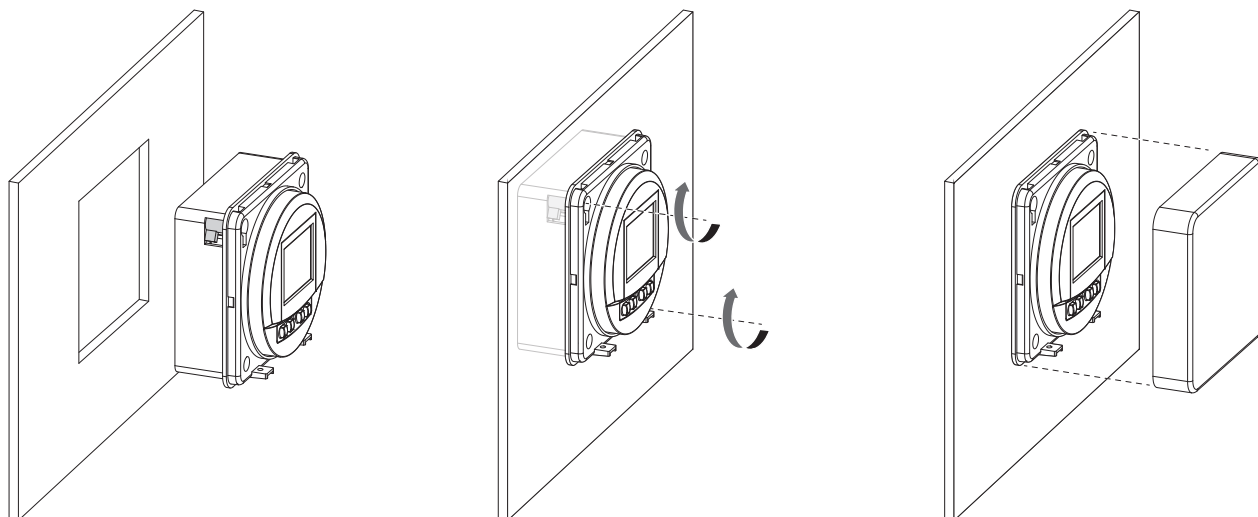


Fig. 7: tactic smart – flush mounting

tactic smart – top-hat rail mounting

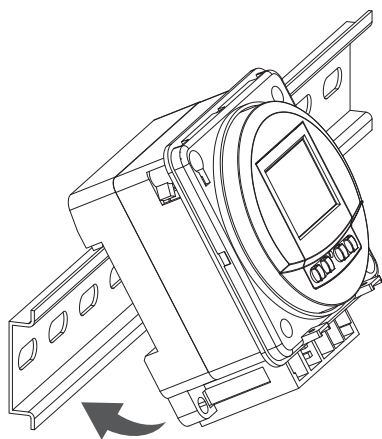


Fig. 8: tactic smart – top-hat rail mounting

- DIN rail (15 mm x 7.5 mm)
- DIN rail (15 mm x 12.5 mm)

Electric connections

Personnel:

- Qualified electrician

Prerequisite:

- The terminals for the wires must have a cross-section between 1 mm² and 2.5 mm².
1. Install the timer.
 2. Strip the insulation from the wires (only for surface mounting and top-hat rail mounting).
 - Stripping length: 8 mm



NOTE!

Tightening torques

To avoid damage and faulty contacts, tighten the terminals using a torque of 1.2 – 1.4 Nm.

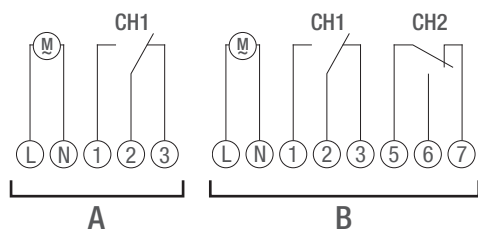


Fig. 9: Circuit diagram

- A 110–230 V 1-channel timer
 B 110–230 V 2-channel timer

3. Connect the timer in accordance with the circuit diagram (Fig. 9/A) or (Fig. 9/B).



Configuration

Back-up battery



Reduced power reserve in the back-up battery!

After six years of storage without being connected to the mains, the back-up battery will be fully discharged.

Connection to mobile devices



Manual operation and programming are only possible if there is no active connection to mobile devices.

Initial commissioning



The timer can only be programmed after it has been connected to an external power supply.

Condition on delivery

When delivered, the device is in automatic mode with default settings for time, date and language (English).



Commissioning wizard

The first time you press the menu button, a wizard takes you through the basic settings, which you can check and adjust as necessary during initial commissioning.

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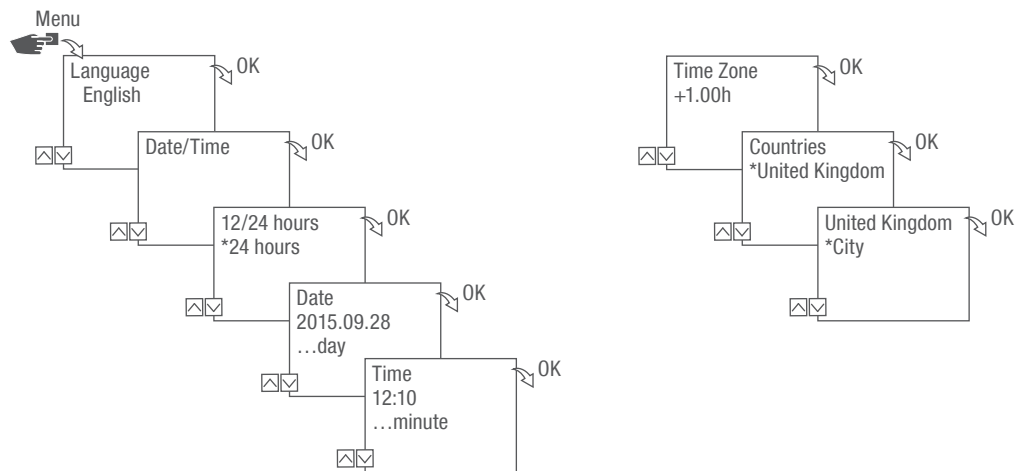


Fig. 10: Initial commissioning

Setting the language

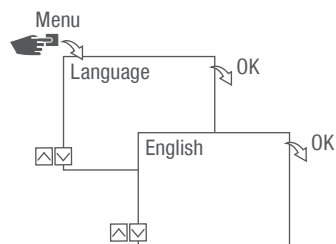


Fig. 11: Setting the language

1. Press the Menu button.
2. Select Language and confirm with OK.



During initial commissioning, this will always read Language (in English).

3. Select the language and confirm with OK.



Setting the date and time

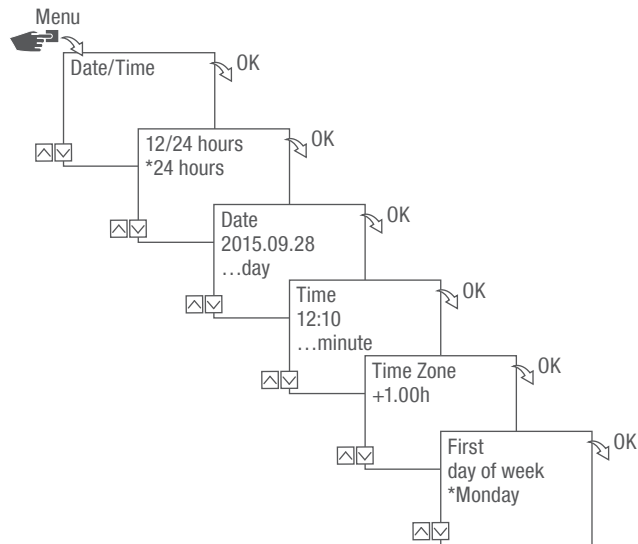


Fig. 12: Setting the date and time

1. Press the Menu button.
2. Select **Date/Time** and confirm with **OK**.
3. Select the desired time display (☞ „Possible time displays“ on page 74) and confirm with **OK**.
4. Enter the date and confirm with **OK**.
5. Enter the time and confirm with **OK**.
6. Enter the time zone and confirm with **OK**.
7. Enter the first day of the week and confirm with **OK**.



Selecting the day of the week

Example:

- 1st day = Sunday... 1 – 5 = Sun – Thu
- 1st day = Monday... 1 – 5 = Mon – Fri

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Possible time displays

Setting	Effect
24 hours	The time is displayed in 24 hour format.
AM/PM	The time is displayed in 12 hour format. • AM = morning • PM = afternoon



Selecting summer/winter time

You can activate automatic calculation of summer and winter time with the relevant settings (☞ „Possible settings“ on page 75) or you can deactivate it.

Possible settings

Setting	Effect
EU (factory setting)	The time changes on the last Sunday in March and the last Sunday in October. It is recalculated every year.
USA	The time changes on the second Sunday in March and the first Sunday in November. It is recalculated every year.
Calibrate 1	Summer/winter time is automatically recalculated for each year. The changeover takes place on the respective Sunday from 2 to 3 am (summer time) or from 3 to 2 am (winter time). • If the date entered is between the 1st and 15th of the selected month, the changeover always takes place on the first Sunday. • If the date entered is between the 16th and 31st of the selected month, the changeover always takes place on the last Sunday.
Calibrate 2	The changeover always takes place on the same entered date each year.
No	No changeover.

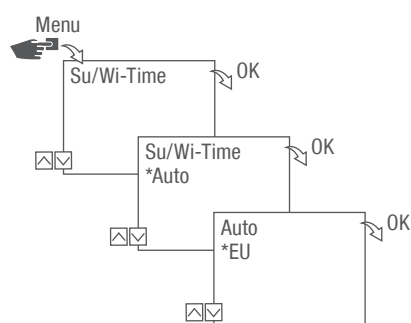


Fig. 13: Selecting summer and winter time

1. Press the Menu button.
2. Select Su/Wi-Time.
3. Select the desired setting (☞ „Possible settings“ on page 75) and confirm with OK.
4. After entering the setting Calibrate 1 or Calibrate 2, enter the month and day and confirm with OK.



Setting the location information

The location information is specified in the **Astro** menu.

Once the location has been defined, the programmes can adjust to sunrise and sunset at the location in question.

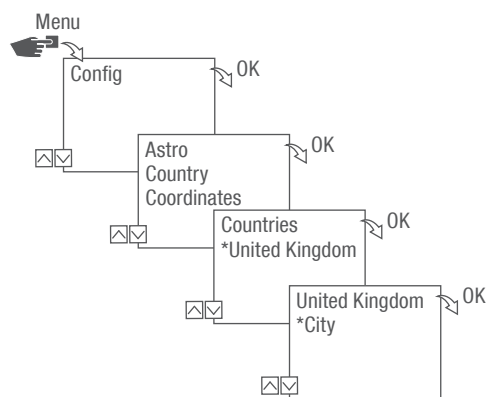


Fig. 14: Setting the location information

1. Press the **Menu** button.
2. Select **Config** and confirm with **OK**.
3. Select the desired setting (↵ „Possible settings“ on page 76) and confirm with **OK**.
4. Select the specification of the desired setting and confirm with **OK**.
⇒ The programmes are adjusted to sunrise or sunset at the selected city.

Possible settings

Setting	Selection	Specification
Country	Country code for the location.	A selection of cities is displayed.
Coordinates	Latitude and longitude of the location.	—



Setting astro correction

In the **Correction** menu, you can correct the sunrise and sunset-specific programming in reference to the actual programming.

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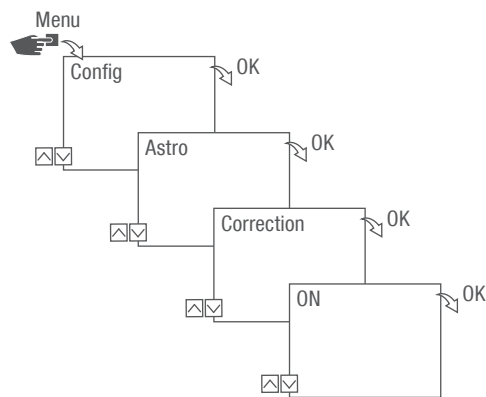


Fig. 15: Setting astro correction



If multiple sunrise and sunset-specific programmes are set, only the first sunrise and the last sunset are taken into consideration.

Pulse, cycle and random switching cannot be corrected.

1. Press the **Menu** button.
 2. Select **Config** and confirm with **OK**.
 3. Select **Astro** and confirm with **OK**.
 4. Select **Correction** and confirm with **OK**.
 5. Select **ON** and confirm with **OK**.
- ⇒ Astro connection is activated and is set individually for each programme.



Setting the backlight

In the **Light** menu, you can set how long the backlight stays on after the last key press.

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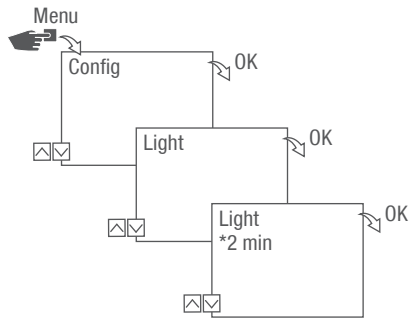


Fig. 16: Setting the backlight

1. Press the **Menu** button.
2. Select **Config** and confirm with **OK**.
3. Select **Light** and confirm with **OK**.
4. Select the desired setting (↵ „Possible settings“ on page 78) and confirm with **OK**.

Possible settings

Setting	Effect
Fix ON	The backlight of the display remains on continuously.
2 min	The backlight of the display remains on for two minutes after the last key press.



Reading the hour counter

The device's operating hours are displayed in the Hour counter Read out menu.

EN

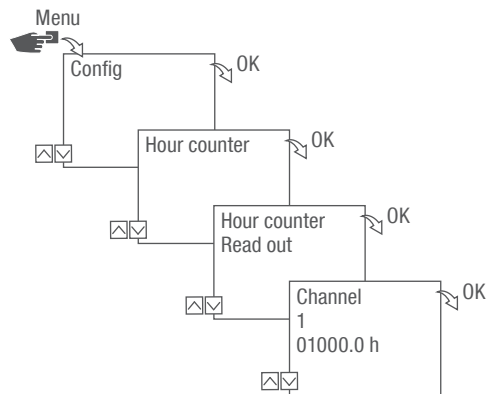


Fig. 17: Reading the hour counter

1. Press the **Menu** button.
2. Select **Config** and confirm with **OK**.
3. Select **Hour counter** and confirm with **OK**.
4. Select **Read** and confirm with **OK**.
5. Select the desired channel and confirm with **OK**.
6. Press **ESC** to return to the channel selection to read the hour counter for another channel.



Resetting the hour counter

In the **Reset** menu, you can set the hour counter to 0.

EN

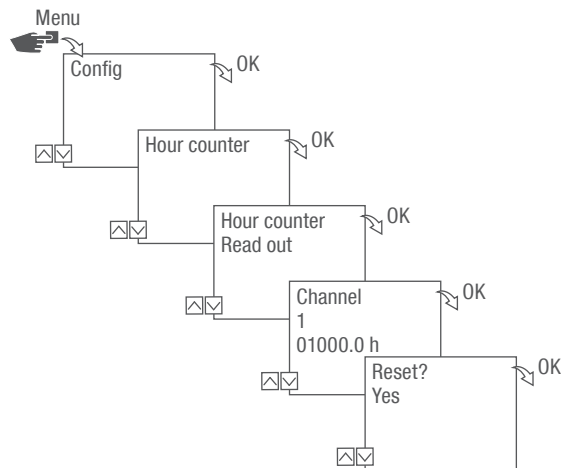


Fig. 18: Resetting the hour counter

1. Press the **Menu** button.
2. Select **Config** and confirm with **OK**.
3. Select **Hour counter** and confirm with **OK**.
4. Select **Read** and confirm with **OK**.
5. Select the channel and confirm with **OK**.
6. Select the desired setting (↵ „Possible settings“ on page 80) and confirm with **OK**.

Possible settings

Setting	Effect
Yes	The hour counter is reset.
No	The hour counter continues to count.



Setting the service counter

In the **Hour counter Service** menu, you can set the number of operating hours that pass before a service message is displayed for a channel. The **Service CHX** display appears in automatic mode, alternating with the time.

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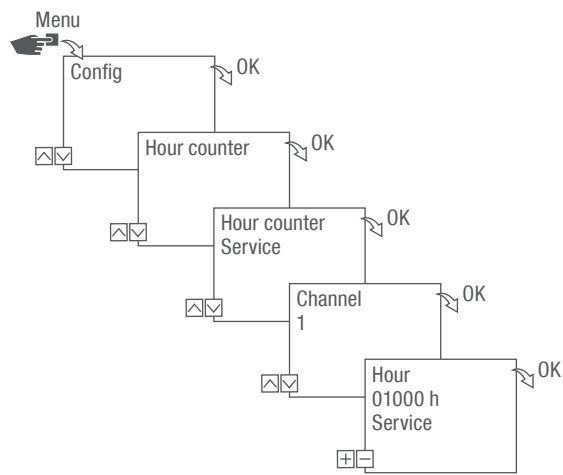


Fig. 19: Setting the service counter

1. Press the Menu button.
2. Select **Config** and confirm with **OK**.
3. Select **Hour counter** and confirm with **OK**.
4. Select **Service** and confirm with **OK**.
5. Select the desired channel and confirm with **OK**.
6. Set the interval (+/-) and confirm with **OK**.
7. Press **ESC** to return to the channel selection to set the service counter for another channel.



Specifying the PIN

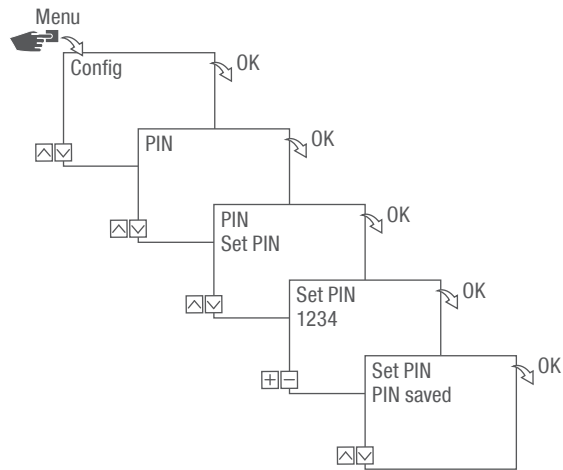


Fig. 20: Specifying the PIN

1. Press the **Menu** button.
2. Select **Config** and confirm with **OK**.
3. Select **PIN** and confirm with **OK**.
4. Select **Enter PIN** and confirm with **OK**.
5. Enter the PIN and confirm with **OK**.
 - ⇒ All configurations, manual operations and programming are protected by PIN and cannot be changed without entering the PIN.



Selecting the mode

In the **Mode** menu, you specify whether the standard functions or the advanced functions are available.

EN

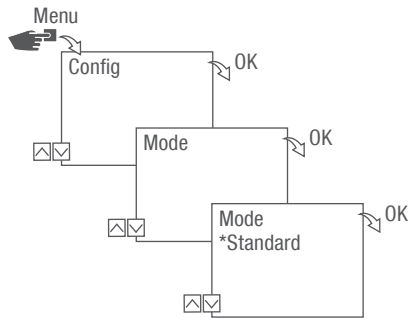


Fig. 21: Selecting the mode

1. Press the **Menu** button.
2. Select **Config** and confirm with **OK**.
3. Select **Mode** and confirm with **OK**.
4. Select the desired setting (↩ „Possible settings“ on page 83) and confirm with **OK**.

Possible settings

Standard	Advanced
• ON/OFF command	• ON/OFF command • Programme prioritisation (↩ Chapter „Prioritising programmes“ on page 93) • Sunrise and sunset-specific programming • Pulse programming (↩ Chapter „Programming pulse switching“ on page 98) • Cycle programming (↩ Chapter „Programming cycle switching“ on page 100) • Random programming (↩ Chapter „Programming random switching“ on page 103)



Selecting the operating mode

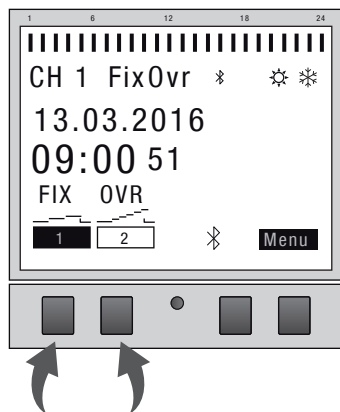


Fig. 22: Operating mode

Use the function keys on the left to select the operating mode for the device.

Possible settings

FIX 	Permanently ON (FIX)	Channel is permanently switched on.
----------------	----------------------	-------------------------------------

FIX 	Permanently OFF (FIX)	Channel is permanently switched off.
----------------	-----------------------	--------------------------------------

OVR 	Override mode ON (OVR)	In override mode, the current programme is temporarily overwritten. Start a programme early that is set to start later with "Override mode ON". The override function only applies to the current programme and remains active until the next automatic command. Then the device returns to automatic mode.
----------------	------------------------	---

Example:

A daily programme switches the device on every day from 8:00 a.m. to 5:00 p.m. If, however, you want the device to already be on at 6:00 a.m. one day, use the override mode.



Possible settings

OVR



Override mode OFF (OVR)

In override mode, the current programme is temporarily overwritten.

- End the current programme with “Override mode OFF”.

The override function only applies to the current programme and remains active until the next automatic command. Then the device returns to automatic mode.

Example:

A daily programme switches the device on every day from 8:00 a.m. to 5:00 p.m. If, however, you want the device to switch off at 4:00 p.m. one day, use the override mode.



Automatic mode ON

Channel switches on on the basis of the programmed switching times.



Automatic mode OFF

Channel switches off on the basis of the programmed switching times.

EN



Reading the Bluetooth settings

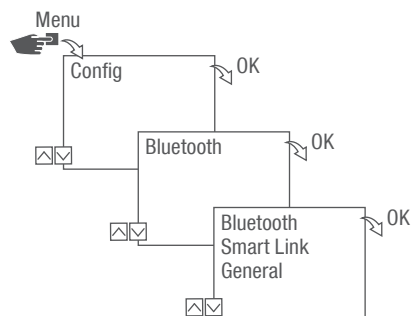


Fig. 23: Bluetooth settings

1. Press the Menu button.
 2. Select **Config** and confirm with **OK**.
 3. Select **Bluetooth** and confirm with **OK**.
 4. Select **Smart Link** or **General** and confirm with **OK**.
- ⇒ You can read the settings (👉 „Bluetooth settings“ on page 86).



You can change the device name via mobile devices.

Bluetooth settings

Menu	Settings
Smart Link	MAC address
	Device names
General	Version number of software
	Serial number of device



Switching Bluetooth connection on/off

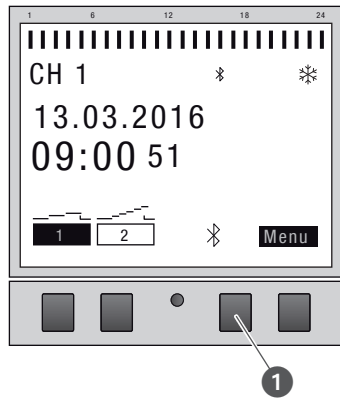


Fig. 24: Switching the Bluetooth connection on the timer on/off

1. To switch off the Bluetooth connection, press the Bluetooth button (Fig. 24/①) on the timer for approximately two seconds.
2. To switch the Bluetooth connection back on, press the Bluetooth button again.



Operating and programming the timer via mobile devices

Connection to mobile devices

The functions “FIX ON/OFF” and “Override mode (OVR)” for the timer can be controlled directly via a Bluetooth connection.

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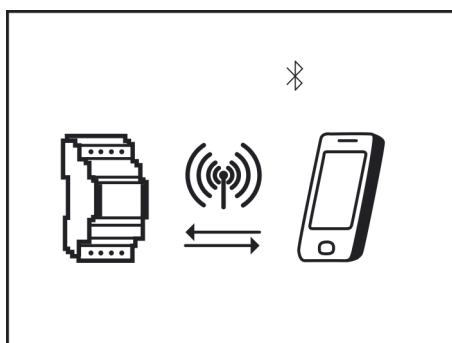


Fig. 25: Display during data transmission

The settings and programming can be defined via the mobile device and executed on the desired channel of the timer. The settings and programmes created on the mobile app have to be transferred to the timer (Fig. 25).



To program the timer using a mobile device, you require the corresponding mobile app. The mobile app is available for Android or for iOS devices; alternatively, scan the QR code shown here and install the app.





Preparing for the connection

1. Switch on Bluetooth on the mobile device.

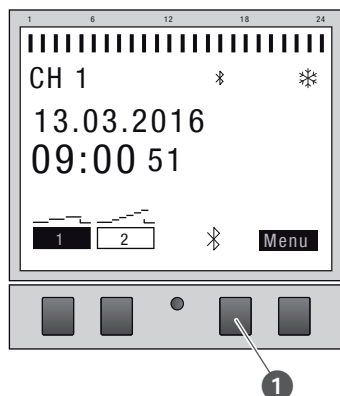


Fig. 26: Establishing a Bluetooth connection to the timer

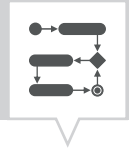
2. Press the Bluetooth button (Fig. 26/1) on the timer.
⇒ A list of all available timers in the vicinity is displayed on the mobile device.



The operation must be completed within two minutes, otherwise the operation has to be repeated.

Establishing the connection

3. The timer has to be selected on the mobile device.
⇒ If there is an active connection, the timer displays the Bluetooth symbol (FIX).



Programming

Information relating to programming

EN



The timer can only be programmed after it has been connected to an external power supply.

Prioritisation

Switch-off commands have priority over switch-on commands.

Programming steps

Prerequisite:

- There is no active connection to mobile devices.

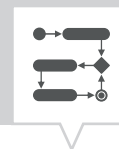
1. Define the date or date ranges.

In this menu, you can specify the day or period (date from...to) in which the device is switched on or off.

2. Define the function and switching time.

In this menu, you can specify which switching command is carried out at what time.

The functions and switching times can be defined for each channel, independently of the date, or for different date ranges (🔗 Chapter „Date-dependent/date-independent programming“ on page 91).



DATE-DEPENDENT/DATE-INDEPENDENT PROGRAMMING

The timer can be programmed with or without a date range.

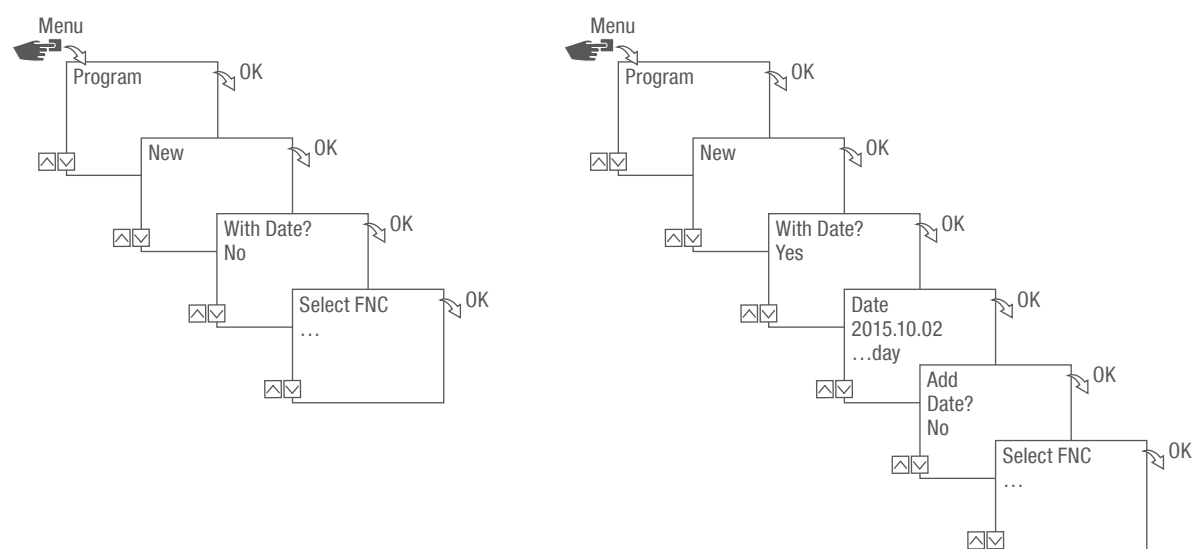
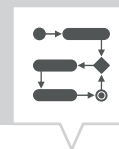


Fig. 27: Programming without or with date

Option	Entry	Result
Programme the timer without a date range.	With Date? Select No and confirm with OK.	The switching commands are valid independently of the date.
Programme the timer with a date range.	With Date? Select Yes and confirm with OK. You can define multiple date ranges. After defining the last date range, select No and confirm with OK.	The switching commands are valid for the dates or periods that are defined in the programming.



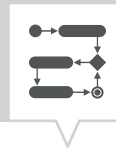
USING WILDCARDS

You can use wildcards when entering the date. This allows you to programme recurring switching times to be carried out; for example, always on the first of the month. Instead of the year or month figures, you can use the wildcards **** for the year and ** for the month.

To select the wildcard, first enter the year; further options are then suggested. Flashing buttons indicate where you are, and you can use (+/-) to enter the year or month.

Examples of entering the date with wildcards

Date entry	Action
2016.**.13 – 2016.**.13	The switching command is executed on the 13th of every month in 2016.
****.**.01 – ****.**.01	The switching command is always executed on the first day of each month.



PRIORITISING PROGRAMMES

You can use prioritisation to specify the order that the programmes on the device run in. For example, a daily switching command can be executed but a higher priority can be defined so that on certain days or periods, other switching times apply.

Example

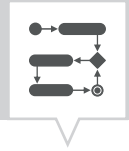
A daily programme switches the device on every day from 8:00 a.m. to 5:00 p.m. If, for example, you do not want the device to switch on at the weekend or on a holiday, create a programme with a higher priority for these days. This programme takes precedence over the other settings.

By default, the priority is specified as follows:

- Without date
 - Very low
- A period
 - Medium
- With a defined date (e.g. 01.01.2016)
 - High

The following priorities can be set:

- Very low
- Low
- Medium
- High
- Very high



Creating a new switching programme

PROGRAMMING AN ON COMMAND

EN

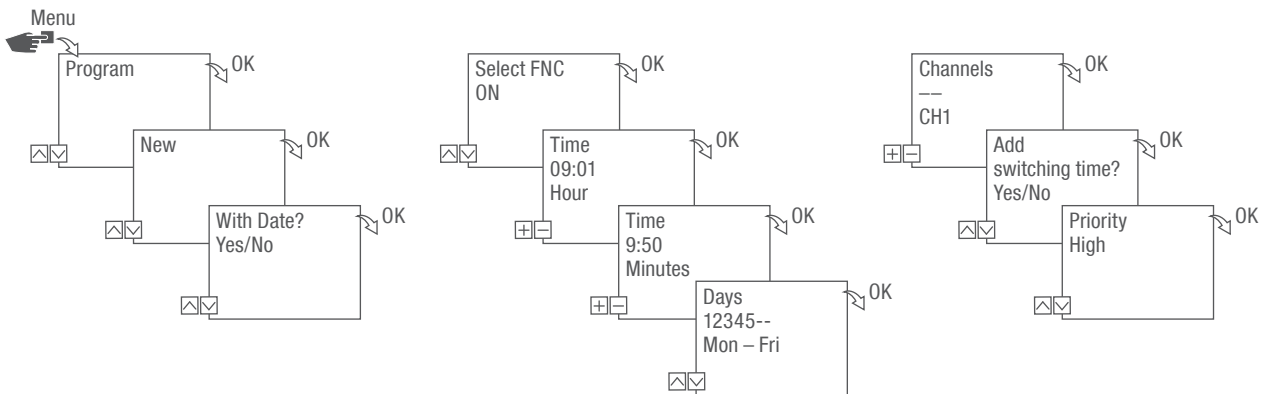
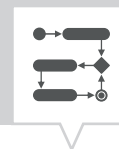


Fig. 28: Programming command ON

1. Press the **Menu** button.
2. Select **Program** and confirm with **OK**.
3. Select **New** and confirm with **OK**.
⇒ The number of available programme memory slots is displayed briefly (PXXX).
The number of available switching programme memory slots is displayed briefly (dXXX).
4. In menu item **With Date?**, specify whether the switching programme is to be programmed with a date (☞ Chapter „Date-dependent/date-independent programming“ on page 91).
5. Select function **ON** and confirm with **OK**.
6. Enter the hours and minutes for the switch-on time (+/-) and confirm with **OK**.



Instead of hours and minutes, you can also select sunrise (**Sunrise**) or sunset (**Sunset**). The value for sunrise and sunset is displayed as an additional alternative to the hours and minutes after 11:59 pm.



7. If astro correction is activated, select the desired setting and confirm with **OK**.

Possible settings for astro correction

EN

Setting	Effect
hh:mm --	Correction is deactivated.
hh:mm 	The switching command is only executed if sunrise takes place after the set time.
hh:mm 	The switching command is only executed if sunrise takes place before the set time.
hh:mm 	The switching command is only executed if sunset takes place after the set time.
hh:mm 	The switching command is only executed if sunset takes place before the set time.

8. Select the specification of the desired astro correction setting and confirm with **OK**.
9. Set the day(s) of the week ($\wedge/\vee$) on which the switching time should apply, and confirm with **OK**.



The days of the week 1 – 5, 6 – 7 and 1 – 7 are set by default. Individual days of the week can be set (+/-) under menu item “Select days”.

10. Select channel (+/-) for which the switching time is to be set, and confirm with **OK**.



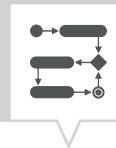
The channel selection is only displayed if there are two or more channels.

- + Active channel
- Inactive channel

11. To create a new switching time, select **YES** and confirm with **OK**.
12. Adopt the automatically suggested priority and confirm with **OK** or adjust the priority.



You can only select a priority in advanced mode (🔗 Chapter „Prioritising programmes“ on page 93).



PROGRAMMING AN OFF COMMAND

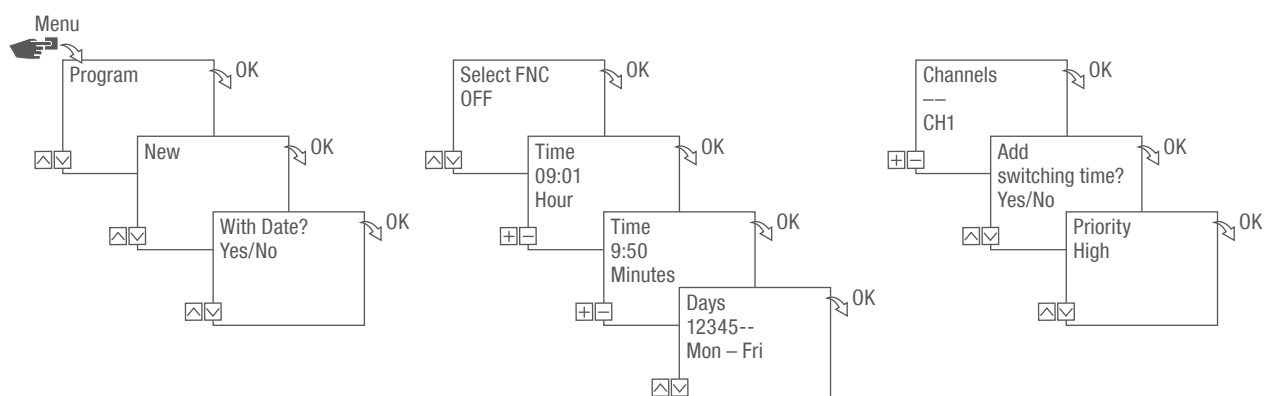
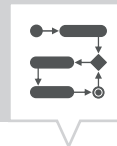


Fig. 29: Programming command OFF

1. Press the **Menu** button.
2. Select **Program** and confirm with **OK**.
3. Select **New** and confirm with **OK**.
⇒ The number of available programme memory slots is displayed briefly (PXXX).
The number of available switching programme memory slots is displayed briefly (dXXX).
4. In menu item **With Date?**, specify whether the switching programme is to be programmed with a date (↩ Chapter „Date-dependent/date-independent programming“ on page 91).
5. Select the **OFF** function and confirm with **OK**.
6. Enter the hours and minutes for the switch-on time (+/-) and confirm with **OK**.



Instead of hours and minutes, you can also select sunrise (**Sunrise**) or sunset (**Sunset**). The value for sunrise and sunset is displayed as an additional alternative to the hours and minutes after 11:59 pm.



7. If astro correction is activated, select the desired setting and confirm with **OK**.
8. Select the specification of the desired astro correction setting (📖 Chapter „Programming an ON command“ on page 94) and confirm with **OK**.
9. Set the day(s) of the week (^/v) on which the switching time should apply, and confirm with **OK**.



The days of the week 1 – 5, 6 – 7 and 1 – 7 are set by default. Individual days of the week can be set (+/-) under menu item “Select days”.

10. Select channel (+/-) for which the switching time is to be set, and confirm with **OK**.



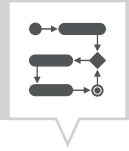
The channel selection is only displayed if there are two or more channels.

- + Active channel
- Inactive channel

11. To create a new switching time, select **YES** and confirm with **OK**.
12. Adopt the automatically suggested priority and confirm with **OK** or adjust the priority.



You can only select a priority in advanced mode (📖 Chapter „Prioritising programmes“ on page 93).



PROGRAMMING PULSE SWITCHING

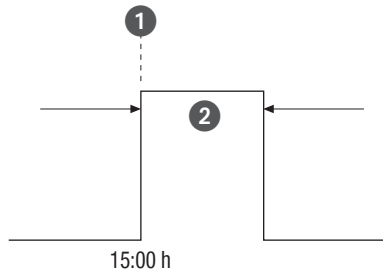


Fig. 30: Pulse switching

Components of a pulse switching command:

- (Fig. 30/①) Start time
- (Fig. 30/②) Duration = switching ON
 - Shortest ON switching duration: 1 second
 - Longest ON switching duration: 2 hours

Example

Channel 1 will be switched daily from Monday to Friday at 3:00 p.m. for a duration of 30 seconds.

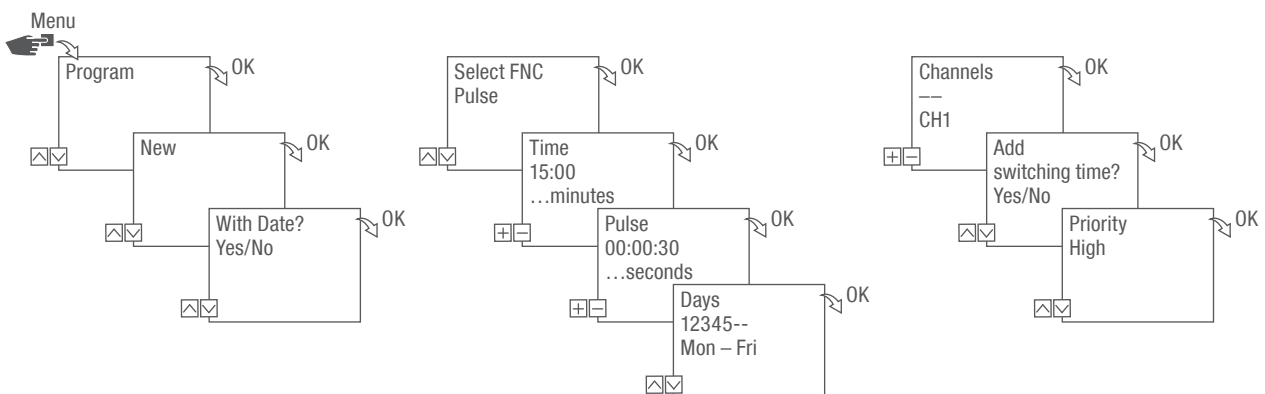
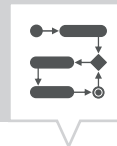


Fig. 31: Programming pulse switching

1. Press the Menu button.
2. Select **Program** and confirm with **OK**.
3. Select **New** and confirm with **OK**.
 - ⇒ The number of available programme memory slots is displayed briefly (PXXX).
 - The number of available switching programme memory slots is displayed briefly (dXXX).



4. In menu item **With Date?**, specify whether the switching programme is to be programmed with a date (➤ Chapter „Date-dependent/date-independent programming“ on page 91).
5. Select the **Pulse** function and confirm with **OK**.
6. Enter the hours and minutes for the switching time (+/-) and confirm with **OK**.
7. Enter hour(s), minute(s) and second(s) of the pulse duration (+/-) and confirm with **OK**.
8. Set the day(s) of the week (^/v) on which the switching time should apply, and confirm with **OK**.



The days of the week 1 – 5, 6 – 7 and 1 – 7 are set by default. Individual days of the week can be set (+/-) under menu item “Select days”.

9. Select the channel (+/-) for which the pulse is to be set, and confirm with **OK**.



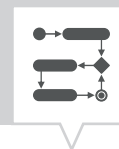
The channel selection is only displayed if there are two or more channels.

- | | |
|---|------------------|
| + | Active channel |
| – | Inactive channel |

10. To create a new switching time, select **YES** and confirm with **OK**.
11. Adopt the automatically suggested priority and confirm with **OK** or adjust the priority.



You can only select a priority in advanced mode (➤ Chapter „Prioritising programmes“ on page 93).



PROGRAMMING CYCLE SWITCHING

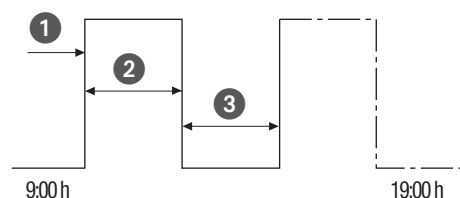


Fig. 32: Cycle switching

Components of a cycle switching command:

- (Fig. 32/①) Start time
- (Fig. 32/②) Period ON = switching ON
- (Fig. 32/③) Period OFF = switching OFF



To end the cycle, an independent “OFF” command must be set. Nesting of cycle programmes is not permitted.

Example

Channel 1 is switched on every 30 minutes for 10 minutes, Monday to Friday, from 9:00 a.m. to 7:00 p.m.

Switching	Cycle
Start time	9:00 a.m.
Period ON	10 minutes
Period OFF	20 minutes
Separate OFF command	7:00 p.m.

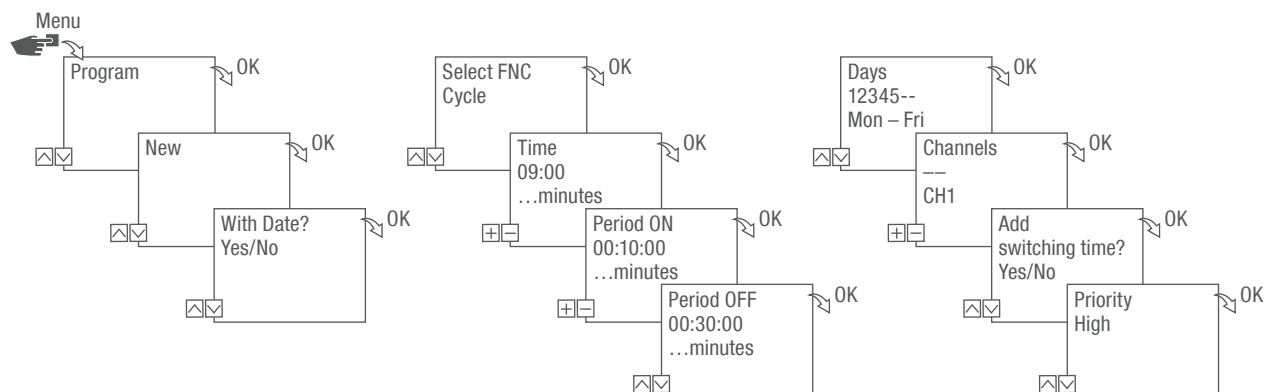
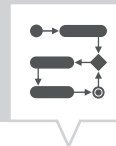


Fig. 33: Programming cycle switching

1. Press the **Menu** button.
2. Select **Program** and confirm with **OK**.
3. Select **New** and confirm with **OK**.
 - ⇒ The number of available programme memory slots is displayed briefly (PXXX).
The number of available switching programme memory slots is displayed briefly (dXXX).
4. In menu item **With Date?**, specify whether the switching programme is to be programmed with a date (↩ Chapter „Date-dependent/date-independent programming“ on page 91).
5. Select the **Cycle** function and confirm with **OK**.
6. Enter the hours and minutes for the switching time (+/-) and confirm with **OK**.
7. Enter period ON (+/-) and confirm with **OK**.
8. Enter period OFF (+/-) and confirm with **OK**.
9. Select day of the week (Λ/∨) on which the cycle is to start and confirm with **OK**.



The days of the week 1 – 5, 6 – 7 and 1 – 7 are set by default. Individual days of the week can be set (+/-) under menu item “Select days”.

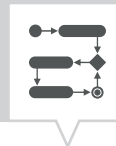
10. Select channel (+/-) for which the cycle is to be set, and confirm with **OK**.



The channel selection is only displayed if there are two or more channels.

- + Active channel
- Inactive channel

11. To create a new switching time, select **YES** and confirm with **OK**.

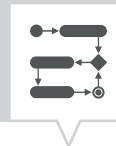


To end the cycle, you have to set an **OFF** command.

12. Execute the commands for a switch-off time for cycle switching ➞ Chapter „Programming an OFF command“ on page 96.
13. To create a new switching time, select **NO**.
14. Adopt the automatically suggested priority and confirm with **OK** or adjust the priority.



You can only select a priority in advanced mode (➞ Chapter „Prioritising programmes“ on page 93).



PROGRAMMING RANDOM SWITCHING

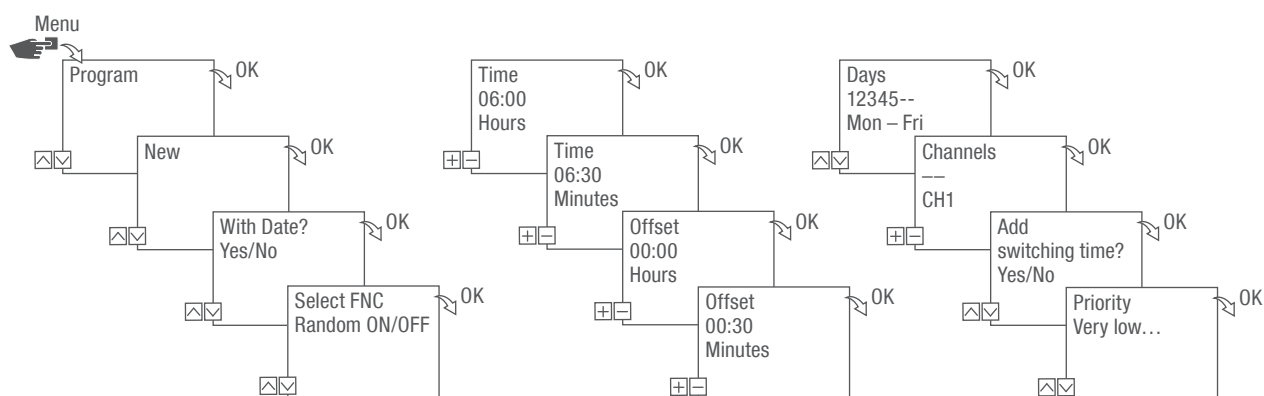


Fig. 34: Programming random switching

Random programming is only possible in advanced mode (➤ Chapter „Selecting the mode“ on page 83).

Example

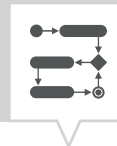
Channel 1 is switched on at random at 6:30 a.m. with an offset of ± 30 minutes, Monday to Friday.

1. Press the Menu button.
2. Select Program and confirm with OK.
3. Select New and confirm with OK.
⇒ The number of available programme memory slots is displayed briefly (PXXX).
The number of available switching programme memory slots is displayed briefly (dXXX).
4. In menu item With Date?, specify whether the switching programme is to be programmed with a date (➤ Chapter „Date-dependent/date-independent programming“ on page 91).
5. Select the Random ON or Random OFF function and confirm with OK.



You can define an offset of up to ± 2 hours.

6. Enter the hours and minutes for the switching time (+/-) and confirm with OK.
7. Enter hour and minute of the period for the random programming (+/-) and confirm each with OK.



8. Set day of the week (Λ/∇) on which the device should randomly switch, and confirm with **OK**.



The days of the week 1 – 5, 6 – 7 and 1 – 7 are set by default. Individual days of the week can be set (+/-) under menu item “Select days”.

9. Select channel (+/-) for which the cycle is to be set, and confirm with **OK**.



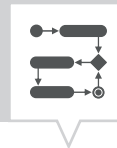
The channel selection is only displayed if there are two or more channels.

- | | |
|---|------------------|
| + | Active channel |
| – | Inactive channel |

10. To create a new switching time, select **YES** and confirm with **OK**.
11. Adopt the automatically suggested priority and confirm with **OK** or adjust the priority.



You can only select a priority in advanced mode (↗ Chapter „Prioritising programmes“ on page 93).



Viewing, editing or deleting elements

VIEWING, EDITING OR DELETING A PROGRAMME

EN

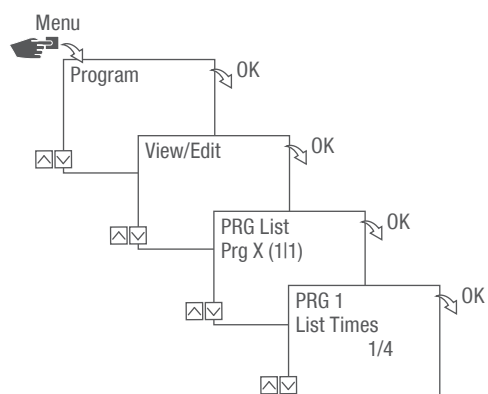
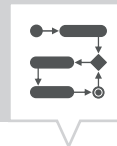


Fig. 35: Viewing, editing, deleting a programme

1. Press the Menu button.
2. Select **Program** and confirm with **OK**.
3. Select **View/Edit** and confirm with **OK**.
4. Select the programme and confirm with **OK**.
5. To view or edit a list (date list, switching times, priority), select the desired list.
To delete the selected programme, select **Delete**.



VIEWING, EDITING OR DELETING SWITCHING TIMES

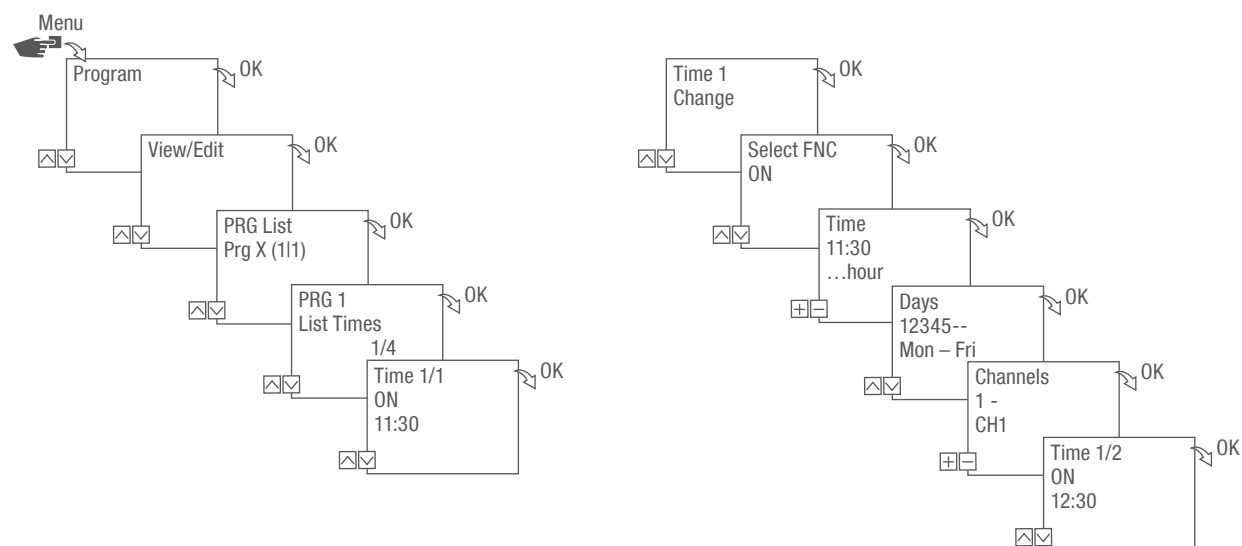


Fig. 36: Viewing, editing, deleting switching times

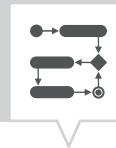
1. Press the Menu button.
2. Select **Program** and confirm with **OK**.
3. Select **View/Edit** and confirm with **OK**.
4. Select the programme and confirm with **OK**.
5. Select **List Times** and confirm with **OK**.



Delete: The selected switching time (e.g., ON/OFF, time, days, channels, pulse or cycle) is deleted.

Delete all: All switching times are deleted.

6. Select **Amend**, **Advanced**, **Delete** or **Delete all** and confirm with **OK**.



VIEWING, EDITING OR DELETING A DATE LIST

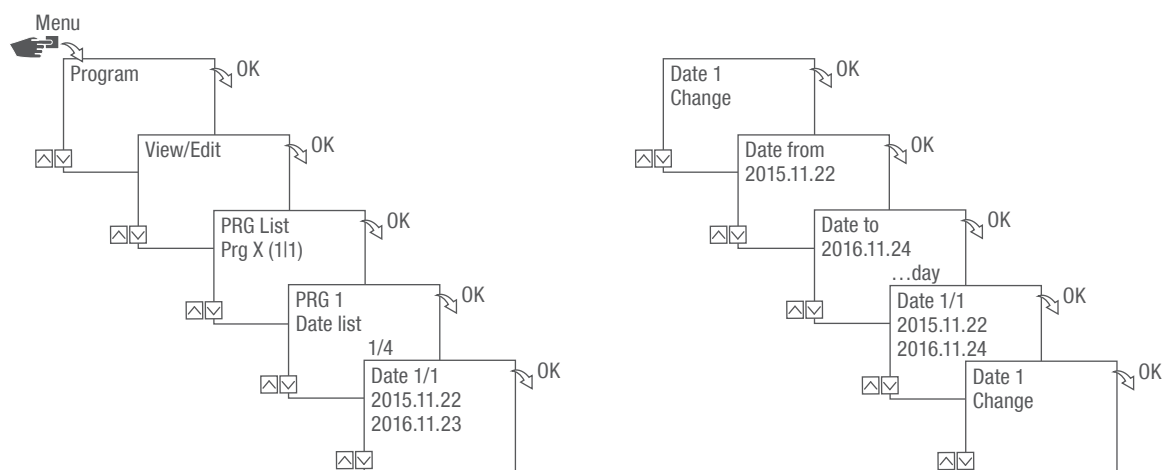


Fig. 37: Editing a date list

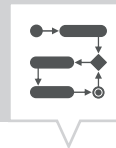
1. Press the Menu button.
2. Select Program and confirm with OK.
3. Select View/Edit and confirm with OK.
4. Select List Dates and confirm with OK.
5. Select Date and confirm with OK.



Delete: The selected date (from...to) is deleted.

Delete all: All the dates in the date list are deleted.

6. Select Advanced, Delete or Delete all and confirm with OK.



DELETING ALL PROGRAMMES

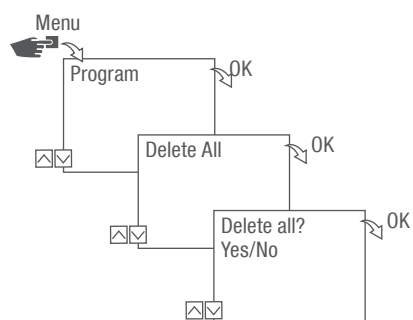


Fig. 38: Deleting all programmes

1. Press the **Menu** button.
2. Select **Program** and confirm with **OK**.
3. Select **Delete all** and confirm with **OK**.
4. Select **Yes** and confirm with **OK**.



Disposal

Improper disposal

EN



ENVIRON- MENTAL PROTECTION!

Incorrect disposal presents an environmental danger.

Incorrect disposal could result in environmental dangers.

- Electric scrap and electronic components must be disposed of correctly, i.e. the parts for disposal must be sorted into material groups.
- Disposal must be environmentally responsible and must employ state-of-the-art environmental protection, recycling and disposal technology.

Recycling

If no agreement has been made covering return or disposal, ensure that the dismantled components are recycled:

- Scrap metals.
- Ensure plastic elements are recycled.
- Dispose of other components after sorting them according to material properties.