

Product manual



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Introduction

Insight into time switch technology

Whether in building technology or other electrical installations, time switches enable time-dependent and reliable control, thereby ensuring the demand-based use of devices, which saves energy and increases efficiency.

One of the most common applications of time switches is lighting control—whether in buildings, outdoor areas, or shop windows. By using an astronomical time switch, the switching times are automatically adjusted to sunrise and sunset.

In industry, time switches are also frequently used to activate machines, systems, as well as door and gate controls, thereby optimizing the operational workflow

Purpose of the Manual

Our goal is to make all our products as user-friendly as possible. Since ease of understanding depends on the users' prior experience, we have developed this manual to help newcomers navigate the world of time switches. It offers a tailored introduction to the topic, explains technical terms, and describes how the switches work. The manual is designed to be comprehensive, so that every reader can find the information they need.

If you find that a topic is missing from the manual, please feel free to contact us. We are continuously working to expand the manual to cover all relevant aspects.

History of Müller Time Switches

Starting with radios, speakers, and headphones, Hugo Müller expanded his product portfolio in the early 1950s. The master watchmaker and founder Hugo Müller specialized in time switches and soon brought the first universal time switch to market. The „Electro Boy“ was born. This analog timer, equipped with push pins for setting switch times and an integrated socket, was designed as a tabletop timer. What is considered retro today was a groundbreaking innovation at the time.

The first fully electronic time switches were introduced in 1982. These so-called time computers, which are now associated with the abbreviation „SC,“ became a hallmark of our products. Our core area „Switching, Controlling, Counting“ became the company's slogan and has been with us ever since

Thanks to the expertise passed down through generations in time switch technology and the loyalty of our dedicated employees, our portfolio has been continuously developed and now stands where it is today. It will continue to grow in the future – just as we will.

Definition and Function of Time Switches

A time switch or programmable timer is a device that turns an electrical contact or load on or off at preset times. The switching times are programmed in advance.

For example, if a door needs to be open from Monday to Friday between 6 AM and 8 PM, and remain closed outside these hours and on weekends, a time switch can achieve this. The time switch will open the door at 6 AM and close it again at 8 PM.

Examples of Time Switch Designs

There are various designs of time switches that differ in terms of programming or the type of programming. Daily time switches repeat every 24 hours. Weekly time switches allow for individual switching times for each day of the week. Annual time switches enable, in addition to weekly programming, the setting of switching times for holidays or recurring annual events. Astronomical time switches operate based on sunrise and sunset times

In our portfolio, you will find both analog and digital time switches.

Analog models offer daily and weekly programs and allow for switching devices on or off for specific time intervals, such as 30 minutes, by pulling out small pins

Digital time switches from Müller can be programmed directly on the device using the display and control buttons. Alternatively, they can also be programmed via our app or Windows software and transferred to the device. They generally offer more extensive features and can be set with minute precision.

Examples of Applications



Ventilation



Door / Gate Control



Feed Automation



Industrial Facilities



Lighting



Shop Windows



Presence Simulation



Shutters



Irrigation



Aquaristics



Water Heaters



& many more

Features & Differences

Time switches have been one of our core competencies since the 1950s. Over time, our time switches, originally known as time computers, have not only evolved and been optimized but we have also developed an extensive range to offer the right timer for every application. In this chapter, we explain how the switches differ

Programming Options

With the Smartphone App

With the Save'n Carry 2.0 app for Android and iOS, you can conveniently create the switching program on your smartphone, transfer it to the time switch, and also read out an existing program from the device. With our pro5 devices, you also have the additional option of accessing the time switches remotely via Wi-Fi. The app is compatible with all pro5, pro4, and easy devices.

Directly on the Device

Programs can be created, edited, or settings adjusted directly on the time switch using the buttons and the display.

Types of Time Switches



pro5

The time switch has an integrated Wi-Fi and Bluetooth interface



pro4

The time switch includes a Bluetooth interface



easy

The time switch includes an NFC interface

The time programs of the pro5 generation

Week

A time switch with a weekly program includes preset switching times for specific days of the week that repeat weekly. Additionally, it allows for setting a permanent program with a start and stop date and time, or extra switching times for a specific date.

Year

The time switch with an annual program has the same functions as a weekly timer, but permanent and extra switching times can be repeated annually and automatically adjusted based on the Easter date. Predefined holidays can be selected via the Windows software.

Astro

The astro program allows you to set astro switching times with any offset of ± 90 minutes, as well as fixed ON/OFF switching times at night for any selected weekdays.

In addition, the astro function lets you choose between standard, inverted, and pulse modes.

Week, Astro, Year

Depending on which time programs the time switch includes, the different switching times can be combined to achieve maximum flexibility.

Further Technical Differences

Channels

Our digital time switches are available in variants with 1 to 4 channels, where each channel is designated for a specific device, except for, e.g., shutter controls. Each channel can be programmed individually.

Memory Locations

Our time switches have memory locations for switching times. As a rule, one memory location is required for each switching time. An exception applies to annual switching times when using the "With Year" function. In this case, two memory locations are required.

Please note that, for example, switching a lamp ON and OFF requires two memory locations. When making your selection, ensure that the number of memory locations meets your requirements.

Mounting Type

When making your selection, you should consider which type of installation is required. Our devices are available in various mounting options, such as distribution board installation or flush mounting. The respective modular widths are specified for each device and range from 1 to 4 modules (17.5–70 mm).

Power Supply

Please consider the specified voltage or your voltage requirements when selecting a time switch. If you do not find a suitable variant, feel free to make an inquiry. We also offer voltage variants that may not be listed on the website.

Installation

Connection & Notes

To connect the time switch, you should first consult the included operating manual or access it on our website. It contains the wiring diagram suitable for your time switch, along with additional installation information.

Safety Instructions

- Installation and mounting must be carried out by a qualified electrician! Otherwise, there is a risk of fire or electrical shock!
- Connect only to the voltage and frequency specified on the nameplate / time switch!
- Any modifications or alterations to the time switch will void the warranty!
- The time switch must be installed in such a way that exceptional levels of interference do not affect its operation!

Initial Operation

Install the time switch.

1. Connect the time switch according to the wiring diagram to the voltage and frequency specified on the nameplate / the time switch.

Note: The following steps apply only to time switches with a display. If you have a model without a display, the settings are configured via the app.

2. The display appears.
3. If you would like to commission your time switch via the app, you can activate Bluetooth by pressing and holding the  button. Otherwise, continue with the next steps.
4. Press the  button. The display appears.
5. Select the desired language using the  /  buttons and confirm with .
6. Set the current date and time. The time switch is preconfigured with the current date, time, Central European Time (UTC+1), and the European daylight saving time rule. If necessary, adjust the date, time, time zone, and daylight saving time rule using the  /  buttons and confirm each setting with .

For astro time switches only:

1. Use the  /  buttons to select between the options "Zone" or "Coordinates". Confirm your selection with  (Recommendation: enter the location using "Zone").
2. In the next step, select the nearest zone using the  /  buttons or enter the exact coordinates of your location. Confirm your selection with .

Mounting

Panel Mounting (DIN Rail)

The time switch is mounted onto a DIN rail in switch cabinets or distribution panels.

Flush Mounting

The time switch is installed in a flush-mounted box recessed into the wall.

Overview of switching types

Description and examples

Overview



Week

Weekly program with fixed switching times.

e.g.

Monday to Friday, turn on at 08:00 AM



Astro

Switching time based on sunset and sunrise with offset.

e.g.

Monday to Friday, turn on 20 minutes after sunset



Permanent

Period with start date/time and stop date/time.

e.g.

Turn off from 01.01. at 08:00 AM to 06.01. at 04:30 PM



Special program

Switching times for a fixed date / period. Overrides the weekly and astro program.

e.g.

During the period from 01/01 to 06/30, switch ON at 08:00 and OFF at 17:00.



Extra

Switching time on a specific date.

e.g.

Turn on on 13.01. at 09:00 AM

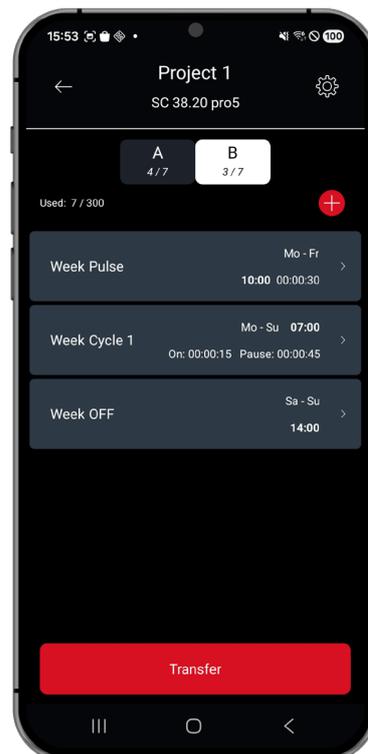
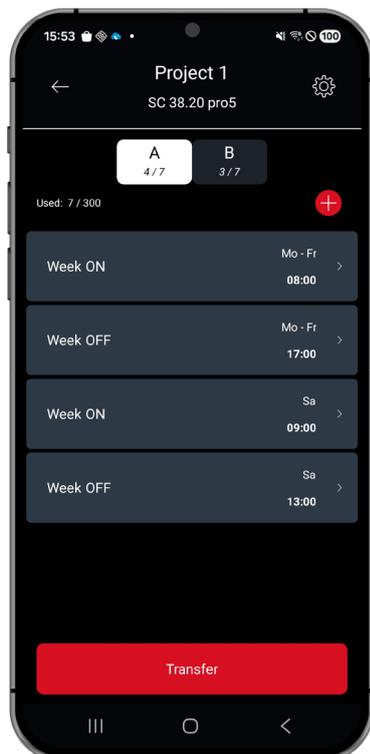
Switching types

Week

The switching type „Week“ includes a weekly program with the ability to set fixed switching functions for different days of the week (Monday to Sunday).

Function	Description	Examples
ON / OFF	Allows selection of weekdays and fixed switching times [hh:mm] for turning a device on or off.	Monday to Friday at 08:00 AM ON.
Pulse	Allows setting of weekdays and switching times [hh:mm],for turning a device on for a specific pulse duration [mm:ss].	Saturday and Sunday, at 08:00 AM for 30 seconds.
Cycle	Allows setting of weekdays and switching times for turning a device on for a specified on-time duration [h:mm:ss] and off for a specified pause duration [h:mm:ss].	Monday to Friday from 01:00 PM, On-time 0:30:00 minutes, Pause 1:00:00 hour (cyclic repetition).

This cycle repeats until interrupted by another switching function.



Astro

Astro timers switch depending on sunrise and sunset. In addition, it is possible to store any offset of up to +/- 90 minutes in order to adjust the switch-on/switch-off times. Fixed night on and off times can also be stored.

Function	Description	Examples
Astro ON	Enables a device to be switched on depending on the sunset with offset	Monday to Friday, switch on 20 minutes after sunset.
Astro OFF	Enables a device to be switched off depending on the sunrise with offset	Monday to Friday, switch off 20 minutes before sunrise.
Night OFF	Fixed switching times that switch off if the Astro On switching time has not yet arrived.	Switch off every day at 10:00 PM.
Night ON	Fixed switching times that switch on if the Astro Off switching time has not yet arrived.	Switch on every day at 05:00 AM..

Astro Functions

Standard

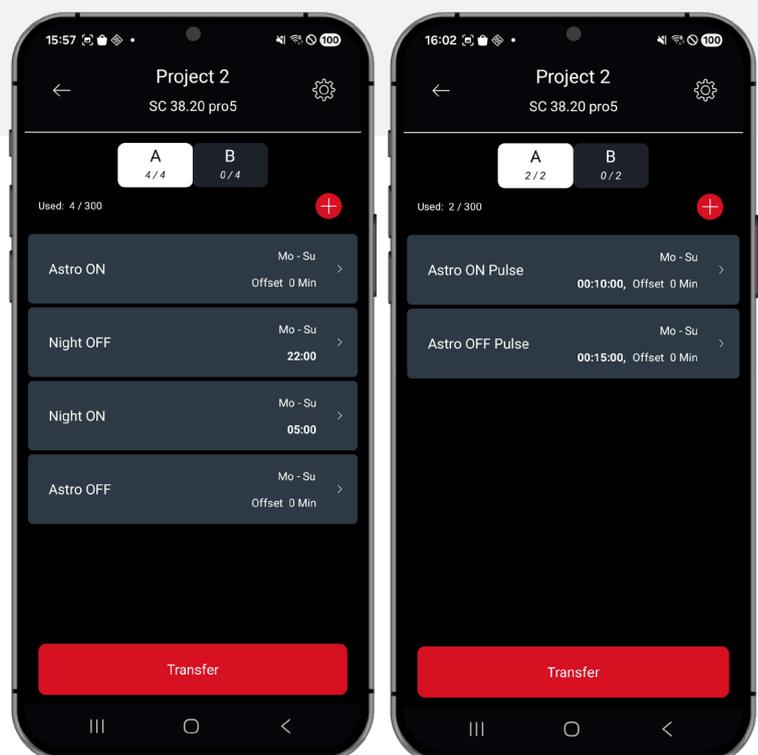
Astro ON Switch on at sunset
Astro OFF Switch off at sunrise

Pulse

Astro ON Pulse at sunset
Astro OFF Pulse at sunrise

Inverted

Astro ON Switch on at sunrise
Astro OFF Switch off at sunset



Permanent

The switching type „Permanent“ allows setting a yearly program where a period can be defined with a start date and time up to a stop date and time.

Function	Description	Examples
ON / OFF	Allows specifying a period with a start date and start time, as well as a stop date and stop time, during which a device should be turned on or off.	From 13.05. at 12:00 PM to 20.05. at 08:00 AM OFF.

Special Programs (SP)

Special programs include all standard functions of the weekly timer, including ON/OFF, pulse, and cycle on a weekly basis. With the switching function „Activation,“ start date and time as well as stop date and time can be specified for when the program will be executed.

Function	Description	Examples
ON / OFF	Allows selecting weekdays and fixed switching times [hh:mm] at which a device is turned on or off.	Monday to Friday at 08:00 AM ON.
Pulse	Allows setting weekdays and switching times [hh:mm] at which a device is turned on for a specific pulse duration [mm:ss].	Saturday and Sunday, at 08:00 AM for 30 seconds.
Cycle	Allows setting weekdays and switching times [hh:mm] at which a device is turned on for a specified on-time duration [h:mm:ss] and off for a specified pause duration [h:mm:ss]. This cycle repeats until interrupted by another switching function.	Monday to Friday from 01:00 PM, On-time 0:30:00 hours, Pause 1:00:00 hour (cyclic repetition).
Activation	Allows specifying a period with a start date and start time, as well as a stop date and stop time, during which all defined switching times of the special program will be executed.	Special program activated from 13.05. at 12:00 PM to 20.05. at 08:00 AM.

Extra

The switching type „Extra“ includes a yearly program with the ability to set fixed switching functions for a specific date.

Function	Description	Examples
ON / OFF	Allows selecting a date and a switching time [hh:mm] to turn a device on or off.	On July 1st, at 06:00 PM ON.
Pulse	Allows selecting a date and a switching time [hh:mm] for turning a device on for a specific pulse duration [mm:ss].	On July 1st, at 08:30 PM, turn on for 30:00 minutes.
Cycle	Allows selecting a date and a switching time [hh:mm], to turn a device on for a specified ontime duration [h:mm:ss] and off for a specified pause duration [h:mm:ss]. This cycle repeats until interrupted by another switching function.	On July 1st, from 09:30 PM, On-time 0:30:00 minutes, Pause 1:00:00 hour (cyclic repetition).

Annual Functions

The annual functions allow you to define a specific date for permanent, special, and additional programs. They also enable an annual date shift depending on Easter or the definition of a fixed date including the year.

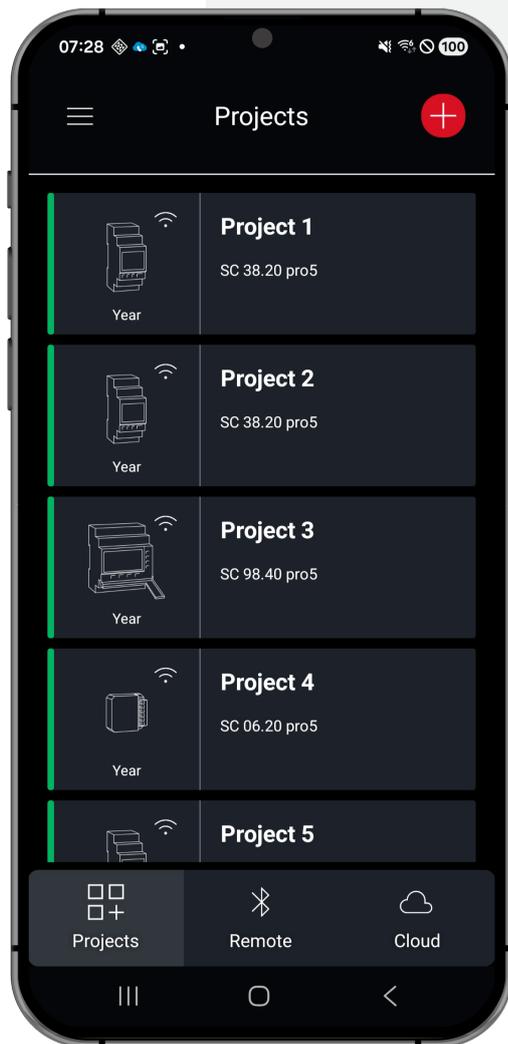
Functions:

- **Standard:** Date without specifying a particular year, recurring annually
- **Easter:** Date depending on Easter, different each year
- **Year:** Fixed date including the year, not recurring annually (requires 2 memory locations)

Programming with the app

Save'n carry 2.0

Although timers are technical products, they don't have to be complicated. With our app, we aim to ensure that users of timers have easy access to programming and are not tied to a fixed location. The app provides flexible and user-friendly operation, allowing programming to be done anytime and anywhere.



Projects

With our app, you can create projects directly or import existing projects from your device. You also have the option to send your project via email.

Remote

Using the Bluetooth remote feature, you can connect directly to your timer via Bluetooth, control it manually, and adjust the switching program.

Cloud

With the pro5 timers, the integrated Wi-Fi function gives you the additional ability to control and program your timers from anywhere.

Free Download

The Save'n Carry 2.0 app is available for free download on the App Store and Google Play Store.



1. Basics

User Profile

When you open the app for the first time, you will be taken to our login page. To use the app, you must have an account.

If you already have an account, you can log in on this page using your existing profile details.

If not, you can create a new profile by selecting **Register** and then log in with your access credentials.

1 Change Username

1. Open the side menu ☰ in the top left corner.
2. Click on your username or on "My Profile."
3. Select "Edit User Data".
4. Adjust your username as desired.
5. Click "Save" to save your user data.

2 Change Password

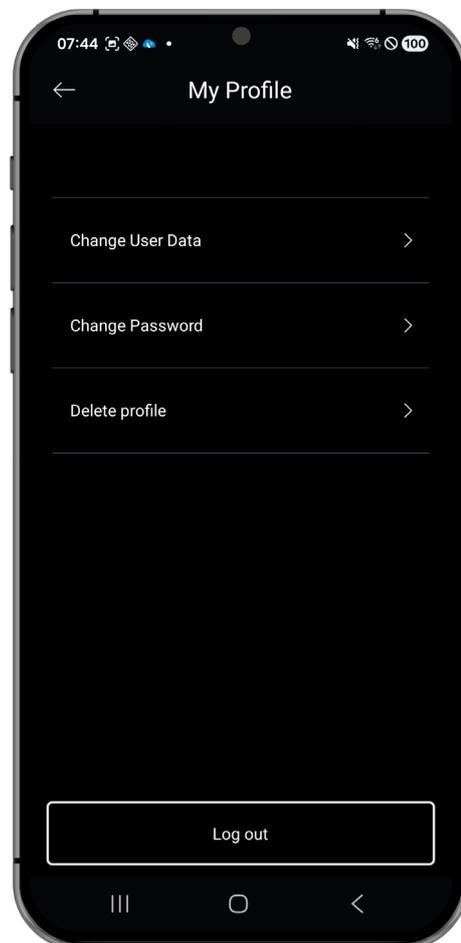
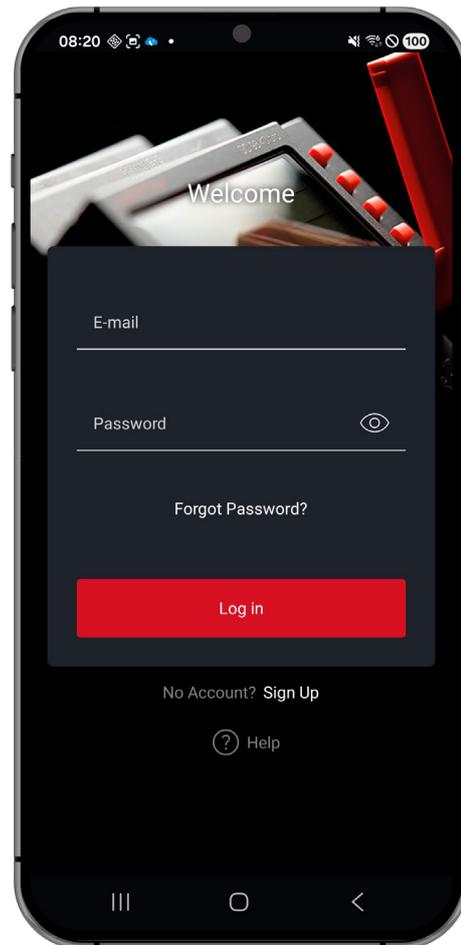
1. Open the side menu ☰ in the top left corner.
2. Click on your username or on "My Profile."
3. Select "Change Password".
4. Enter your current password.
5. Enter your new password and repeat it to confirm.
6. Click "Save" to apply the new password.

3 Delete Profile

1. Open the side menu ☰ in the top left corner.
2. Click on your username or on "My Profile".
3. Select "Delete Profile".
4. Enter your current password.
5. Confirm by clicking "Delete" to permanently delete your profile.

4 Log Out

1. Open the side menu ☰ in the top left corner.
2. Click on your username or on "My Profile".
3. Select "Log Out" at the bottom of the screen.
4. You will be logged out.



General

1 Change Language

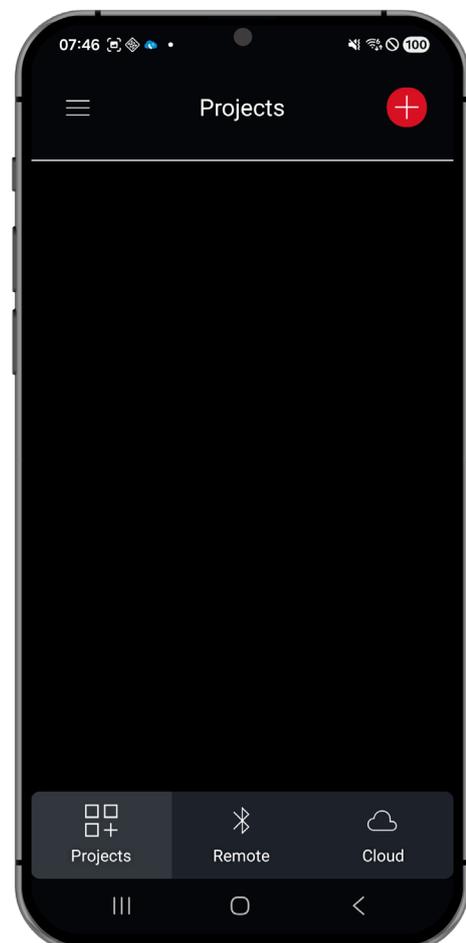
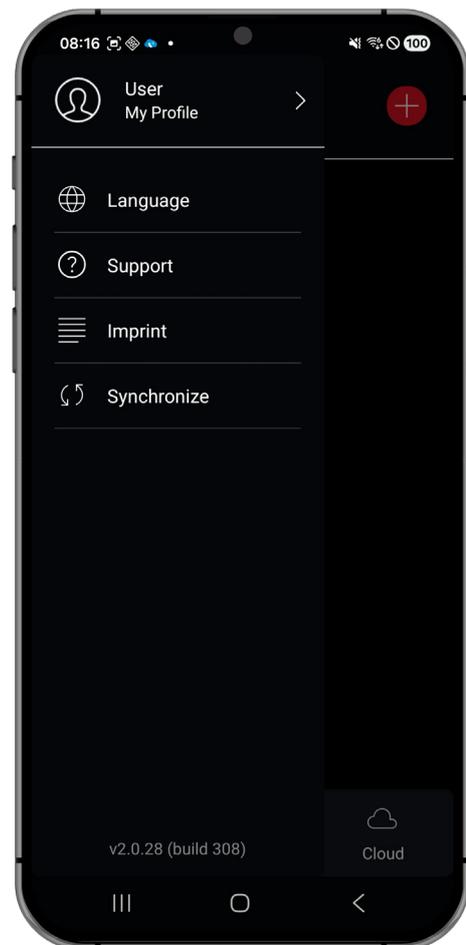
1. Open the side menu ☰ in the top left corner.
2. Click on "Language."
3. Select any language you prefer.
4. The app will close automatically.
5. When you reopen the app, it will be displayed in the selected language.

2 Synchronize

1. Open the side menu ☰ in the top left corner.
2. Click on "Synchronize."
3. Your projects will be matched and synchronized with the database.

3 Navigation

The app is divided into three sections. You can switch between them using the bar at the bottom of the screen. The individual sections and their functions are explained on the following pages.



2. Projects

In the project area, projects can be created for different devices and switching times can be set. You then have the option to transfer your project with the saved switching times to different timers of the same device type.

Create a project

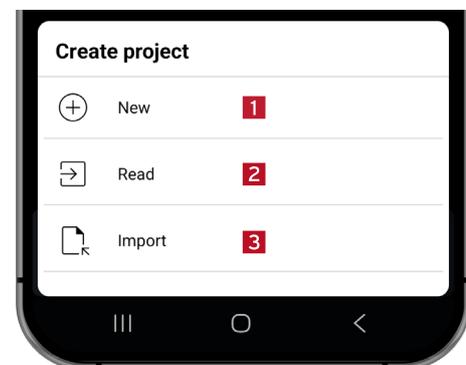
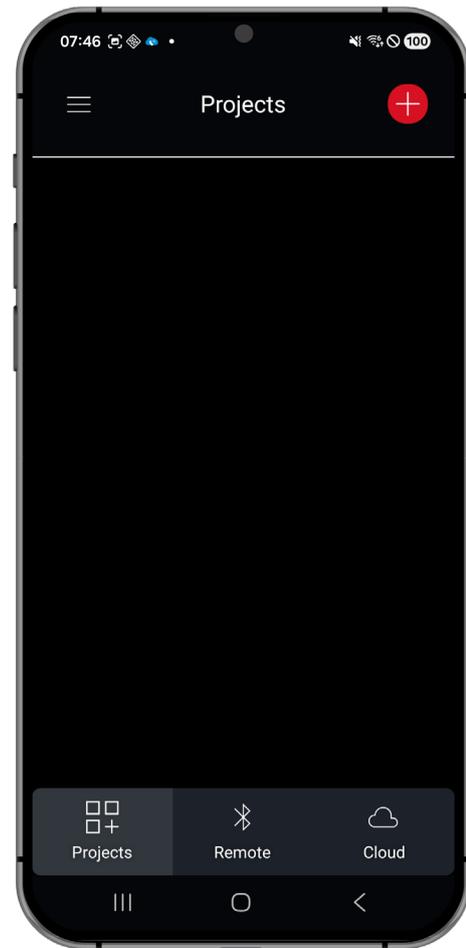
1 Create a new Project

1. Click on the **+** icon in the top right corner.
2. Select "New" from the list.
3. Search for the identical device designation (e.g. SC 18.10 easy) of your timer. If needed, use the "Device selection" input field, the filter buttons below the search bar, or the filter function via the filter icon.
4. Click on the device designation to select it.
5. Give your project a name.
6. Optional: Add a description.
7. Select the appropriate settings.
8. Click "Create" to create your project.

2 Import an Existing Project from a Device

1. Click the **+** icon in the top right corner.
2. Select "Import" from the list.
3. Choose Bluetooth.

Bluetooth ⌘: Press the Bluetooth button on the timer until the Bluetooth symbol flashes on the display. In the app, select your device from the list under "Found Devices."
4. Enter a name for your project.
5. Optional: Add a description.
6. Follow the menu instructions and click "Create" to create your project.



To establish a Bluetooth connection, please enable your location services and make sure that Bluetooth is turned on.

3 Import Project File

1. Click the **+** icon in the top right corner.
2. Select "Import" from the list.
3. Then choose a project from your saved files.
4. Enter a name for your project.
5. Click "Create" to create your project.

4 Add a Shared Project File

6. Open the message containing the project file (e.g., in your email app or a messenger).
7. Tap on the project file (.snc_prj or .db) to open it.
8. Select "Save'n Carry 2.0" as the app to open the file.
9. Assign a project name and confirm by clicking "Create."

Project Options

1 Change Project Name and Description

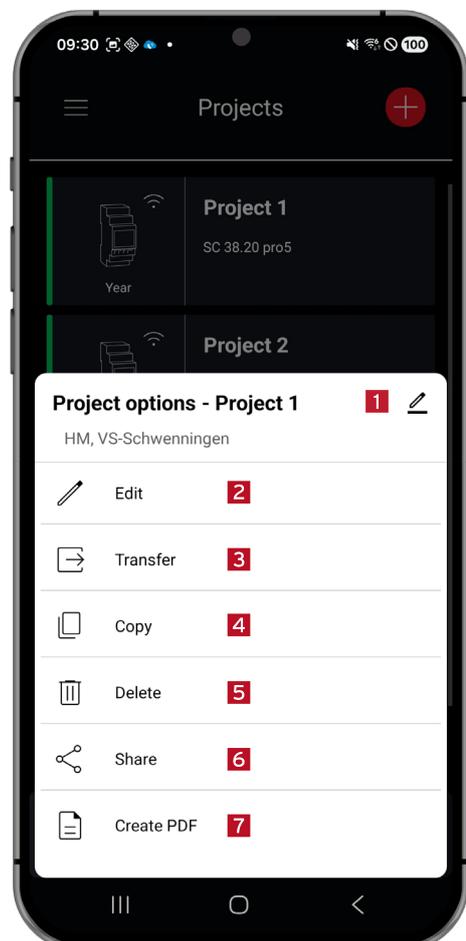
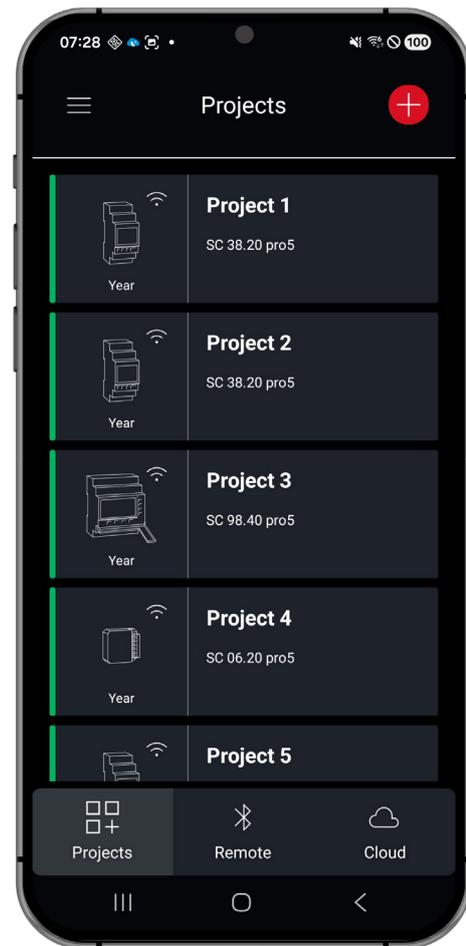
1. Click on a project in the project overview to open the project options.
2. Click the  icon in the top right corner to modify the project name and description.
3. Click "Save" to apply your changes.

2 Edit Project

1. Click on a project in the project overview to open the project options.
2. Select "Edit" to modify the project, for example to adjust switching times or change settings.

3 Transfer Project to the Timer

1. Click on a project in the project overview to open the project options.
2. Select "Transfer." The further procedure is explained on page 22.



4 Copy Project

1. Click on your project in the project overview.
2. Select „Copy“.
3. Give the copied project a name and click „Create“

5 Delete Project

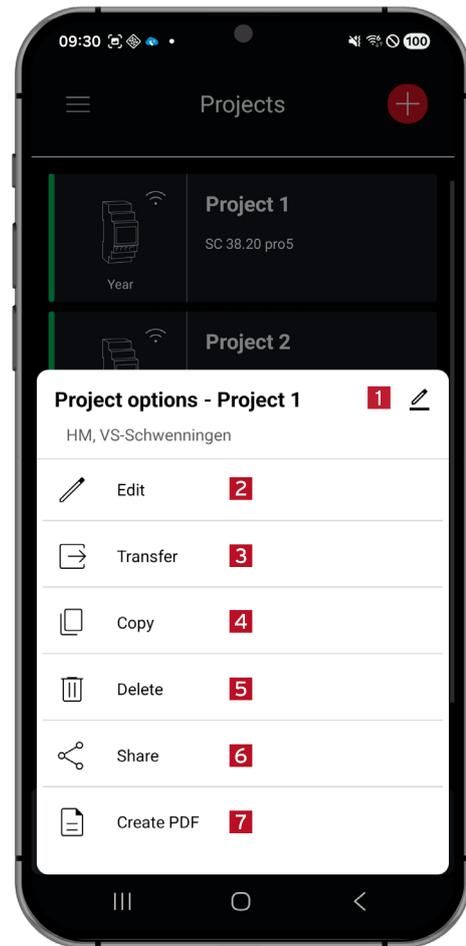
1. Click on your project in the project overview.
2. Select „Delete“. Confirm that you want to delete the project.

6 Share Project

1. Click on your project in the project overview.
2. Select „Share“.
3. Click on the app where you want to share the project.
4. Follow the process in the selected app.

7 Create PDF

1. Click on your project in the project overview.
2. Select „Create PDF.“
3. Choose the app in which you want to open the PDF, e.g., PDF Viewer.



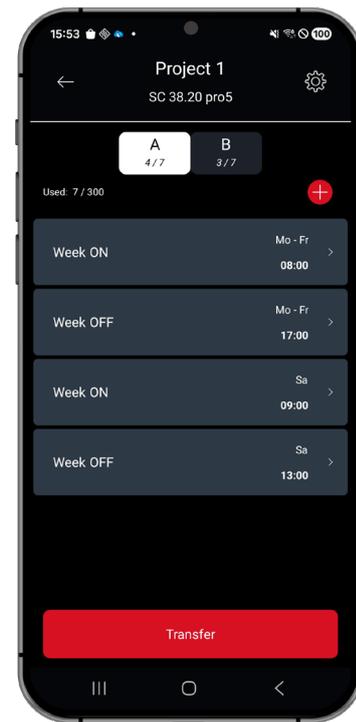
Transfer Projects

1 Transfer Project to the Device

1. Click on the project you want to transfer to the timer and select "Transfer" under the project options.

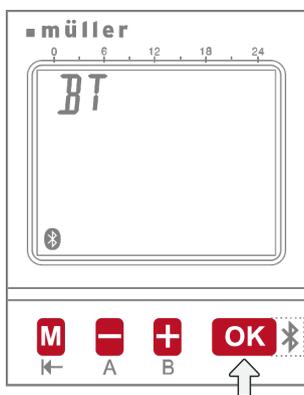
or

1. If you have already opened the project via "Edit," you can transfer it directly from within the project. To do so, click "Transfer."
2. Press the "OK" button on the timer until "BT" flashes on the display.
3. In the app, select your device from the list under "Found Devices."
4. Once the connection is successful, "Connected" will briefly appear on the device display. Wait until the data transfer is complete. The transfer progress will be displayed in the app.

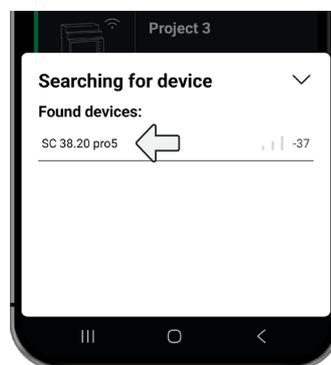


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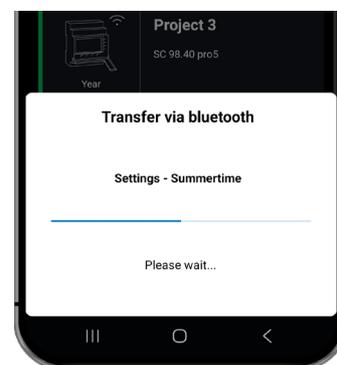
Please enable your location services and ensure that Bluetooth is turned on.



1. Activate Bluetooth



2. Select Device



3. Data Transmission

Project Settings

1 Open Project

1. Click on your project in the project overview.
2. Select „Edit“ to open the switching program.

The following settings depend on the timer model and are therefore not available for all timers.

2 Adjust Device Language

1. Open the project via “Edit”.
2. Click the gear  icon in the top right corner to open the settings.
3. Click on “Language”.
4. Select the desired language to save it.

3 Set Daylight Saving Time

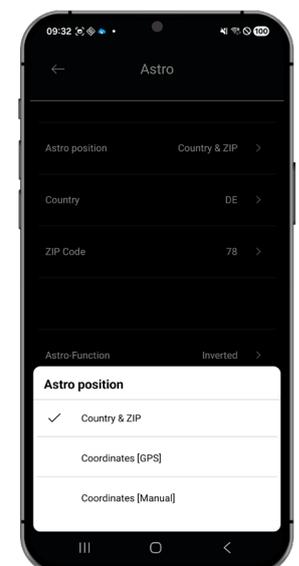
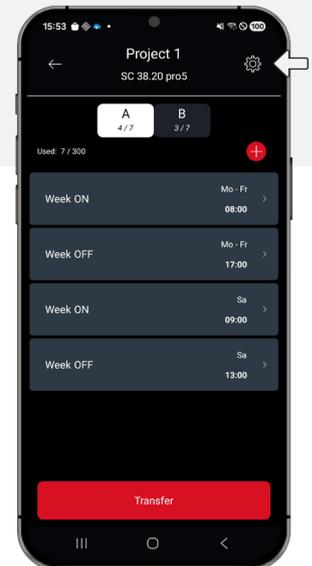
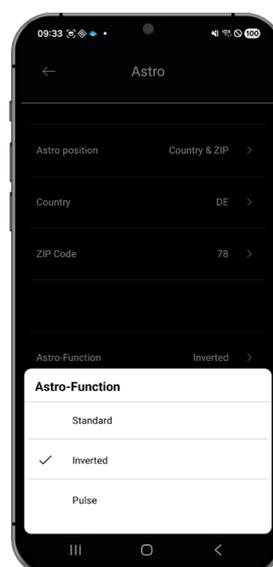
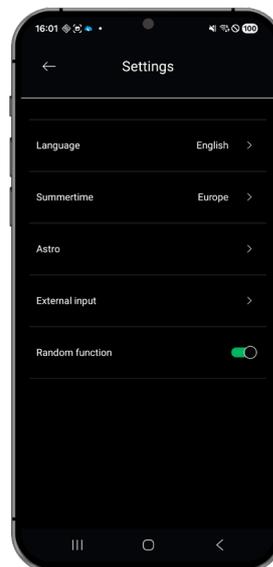
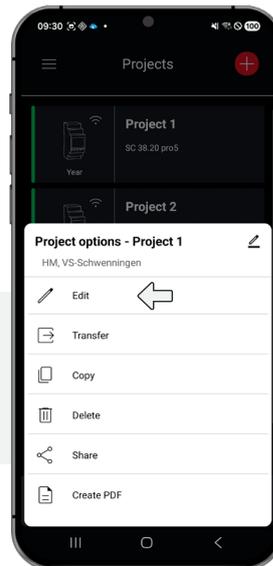
1. Open the project via “Edit”.
2. Click the gear  icon in the top right corner to open the settings.
3. Click on “Daylight Saving Time”.
4. Select the desired daylight saving time setting to save it.

4 Adjust Astro Position

1. Open the project via “Edit”.
2. Click the gear  icon in the top right corner to open the settings.
3. Click on “Astro.”
4. Under “Astro Position,” choose how you would like to specify your location.
5. Adjust the corresponding values if necessary.

5 Select Astro Function

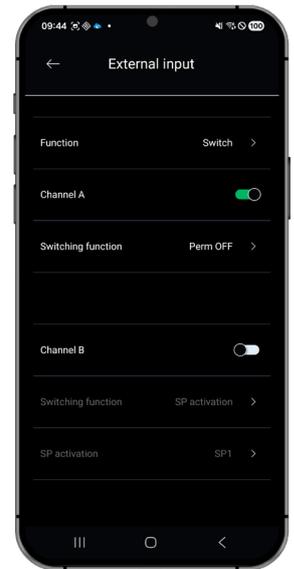
1. Open the project via “Edit”.
2. Click the gear  icon in the top right corner to open the settings.
3. Click on “Astro.”
4. Under “Astro Function,” choose between Standard, Inverted, and Pulse.



→ More about Astro
on page 13.

6 Set Up External Input

1. Open the project via "Edit".
2. Click the gear  icon in the top right corner to open the settings.
3. Click on "External Input."
4. Under "Function," select either Push Button or Switch, depending on how you want to use the external input.
5. You can now assign switching functions to the channels and activate or deactivate them. Depending on the timer model, one or two external inputs are available.
6. Under "Switching Function," define what should happen when the push button or switch is operated, e.g., PERM OFF for a holiday function or the staircase lighting function. The available options depend on the function you have selected



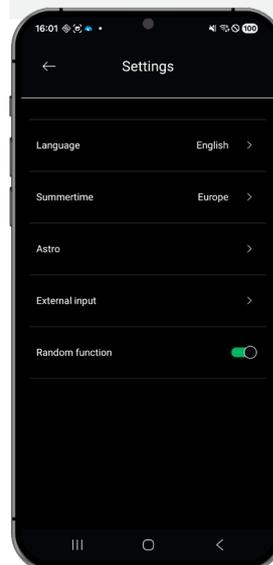
7 Deactivate Channel Buttons

1. Open the project via "Edit".
2. Click the gear  icon in the top right corner to open the settings.
3. Deactivate the "Channel Button(s) Active" slider to lock the channel buttons on the timer.

8 Activate Random Function

1. Open the project via "Edit".
2. Click the gear  icon in the top right corner to open the settings.
3. Activate the "Random Function" slider to randomly shift existing switching times, for example to simulate presence.

i Only for SC 08.x0 pro5. For timers with a display, this function is performed via the PIN lock directly on the timer.



Create Switching Times

1 Open Project

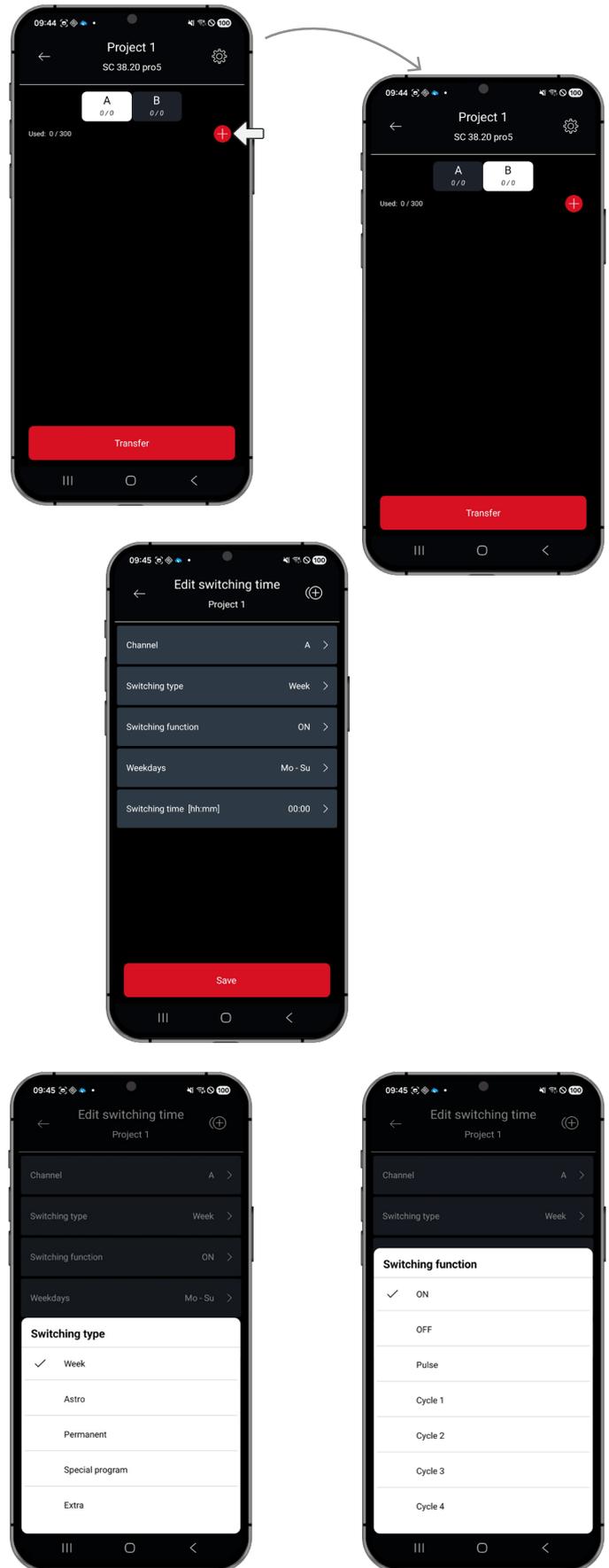
1. Click on a project in the project overview.
2. Select "Edit" to open the project.

2 Create a New Switching Time

1. Open a project.
2. Optional: Select the channel for which you want to create a switching time. Alternatively, you can change the channel while creating the switching time.
3. Click the **+** icon.
4. Make your desired settings by clicking on the listed fields and selecting the appropriate options.
5. Click "Save" to create the switching time.
6. The switching time will now appear in the overview under the corresponding channel.

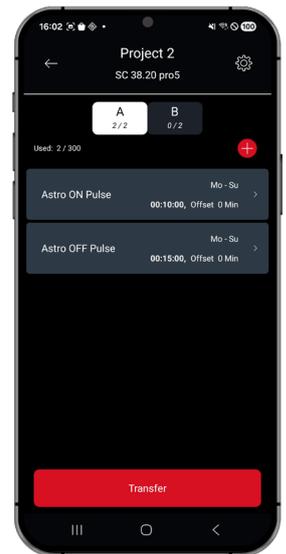
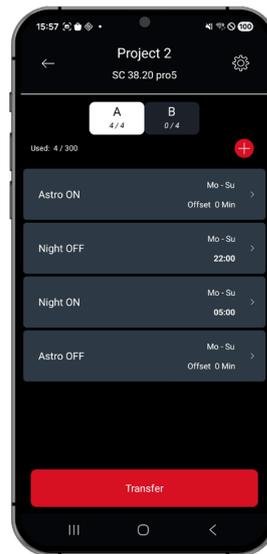
3 Create Switching Type: Week

1. Open a project.
2. Click the **+** icon.
3. Click on "Switching Type" and select "Week."
4. Choose the desired switching function, e.g., ON, OFF, Pulse, or Cycle.
5. Click on "Weekdays" to select the desired days (e.g., Mon–Fri) and confirm your selection with "Save."
6. Enter the switching time at which the function should be executed (e.g., 07:00).
7. Click "Save" to create the switching time.



4 Switching Type: Astro

1. Open a project.
2. Click the **+** icon.
3. Click on "Switching Type" and select "Astro."
4. Choose the desired switching function, e.g., Astro ON, Night OFF, Night ON, or Astro OFF.
5. Click on "Weekdays" to select the desired days (e.g., Mon–Fri) and confirm your selection with "Save."
6. Optional: Enter an offset.
7. Click "Save" to create the switching time.

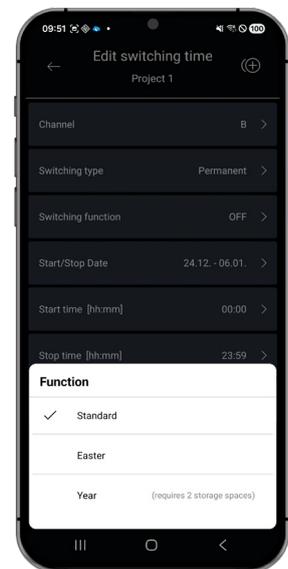


5 Switching Type: Permanent

1. Open a project.
2. Click the **+** icon.
3. In the second line, click on "Switching Type" and select "Permanent."
4. Choose the desired switching function, e.g., ON or OFF.
5. Under "Start/Stop Date," select the desired period in the calendar.
6. Under "Start Time," enter the time on the start date when the period should begin.
7. Under "Stop Time," enter the time on the end date when the period should end.
8. For annual timers: Select a function (see page 15).
9. Click "Save" to create the switching time.



The available switching functions depend on the previously selected Astro function see Seite 13.



→ More about Permanent on page 14.

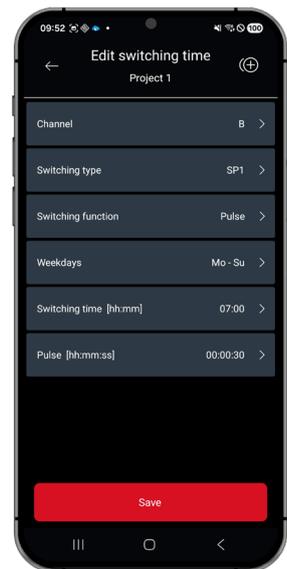


For "Function: Easter," this refers to Easter-dependent public holidays. These must always be created using the year of the current calendar year, regardless of whether the date is already in the past.

6 Switching Type: Create a Special Program

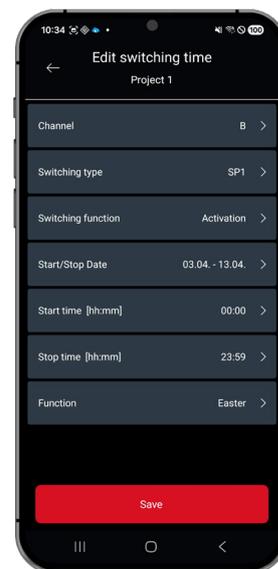
1. Open a project.
2. Click the **+** icon.
3. In the second line, click on "Switching Type" and select "Special Program". 10 different special programs are available.
4. Select the desired special program from SP1–SP10.
5. Choose the desired switching function, e.g., ON, OFF, Pulse, or Cycle.
6. Click on "Weekdays" to select the desired days (e.g., Mon–Fri) and confirm your selection with "Save".
7. Enter the switching time at which the switching function should be executed e.g., 07:00.
8. Click "Save" to create the switching time.

→ More about Special program on page 14.



7 Switching Type: Activate Special Program

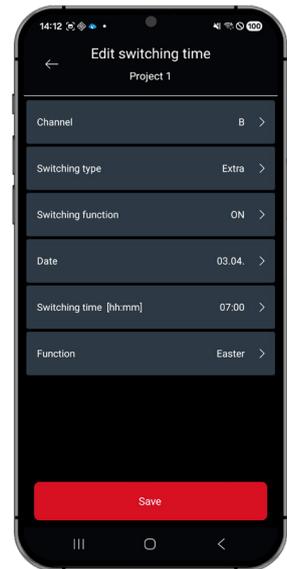
1. Open a project.
2. Click the **+** icon.
3. In the second line, click on "Switching Type" and select "Special Program". 10 different special programs are available.
4. Select the desired special program from SP1–SP10.
5. Under "Switching Function," select "Activation."
6. Under "Start/Stop Date," choose the desired period in the calendar.
7. Under "Start Time," enter the time on the start date when the period should begin.
8. Under "Stop Time," enter the time on the end date when the period should end.
9. For annual timers: Select a function (see page 15).
10. Click "Save" to create the switching time.



8 Switching Type: Create Additional

1. Open a project.
2. Click the **+** icon.
3. In the second line, click on "Switching Type" and select "Additional".
4. Choose the desired switching function, e.g., ON, OFF, Pulse, or Cycle.
5. Under "Date," enter the specific date.
6. Enter the switching time at which the function should be executed (e.g., 07:00).
7. For annual timers: Select a function (see page 15).
8. Click "Save" to create the switching time.

→ More about Extra on page 15.



9 Switching Function: Create Pulse

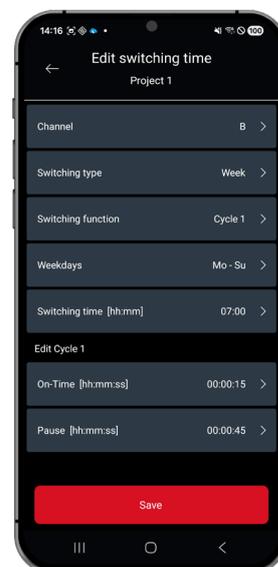
1. Open a project.
2. Click the **+** icon.
3. In the second line, click on "Switching Type" and select Standard, Additional, or SP.
4. Choose the switching function "Pulse".
5. Click on "Weekdays" to select the desired days and then click "Save".
6. Enter the switching time at which the pulse should be executed.
7. Enter the pulse duration [mm:ss] in the "Pulse" field.
8. Click "Save" to create the pulse.

i

A pulse switching time does not require an OFF switching time and can be set in seconds. If you select a pulse duration of 5 minutes, the timer will automatically switch OFF after 5 minutes. Pulse times are commonly used for applications such as bells, door or gate control, etc.

10 Switching Function: Create Cycle

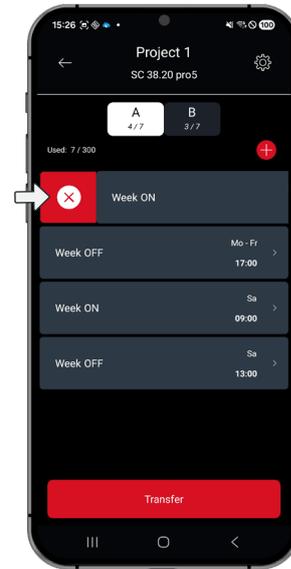
1. Click the **+** icon.
2. In the second line, click on "Switching Type" and select Standard, Additional, or SP.
3. Under "Switching Function", select your desired cycle.
4. Click on "Weekdays" to select the desired days and then click "Save".
5. Enter the switching time at which the cycle should be executed.
6. Click "Save" to create the cycle.



Edit Switching Times

1 Edit a Switching Time

1. Open a project.
2. Click on the switching time you want to edit.
3. Modify the switching time as desired.
4. Click "Save" to apply the changes.



2 Delete a Single Switching Time

1. Open a project.
2. Swipe the switching time you want to delete to the right.
3. Click the "x" to permanently remove the switching time.

3 Delete Multiple Switching Times

1. Open a project.
2. Press and hold the switching time you want to delete.
3. Select additional switching times either individually or by using the main circle to select all.
4. Click „Delete“ to remove the selected switching times.
5. Confirm the deletion again by clicking "Delete".



i

If you have activated the multiple selection mode, you can exit it by clicking "Cancel".

4 Duplicate Switching Times

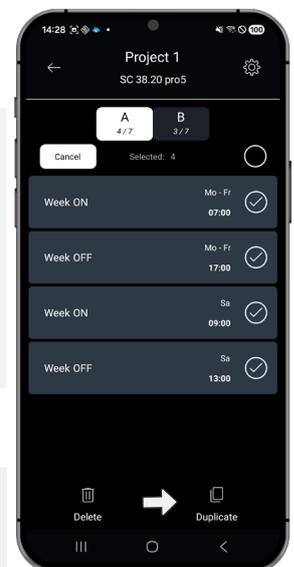
1. Open a project.
2. Press and hold the switching time you want to duplicate.
3. Select additional switching times either individually or by using the main circle to select all.
4. In the top bar, choose the channel into which you want to insert the selected switching times.
5. Click „Duplicate“ to duplicate the selected switching times.

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When duplicating or deleting, switching times from different channels can be selected together.

i

Astro switching times cannot be duplicated.

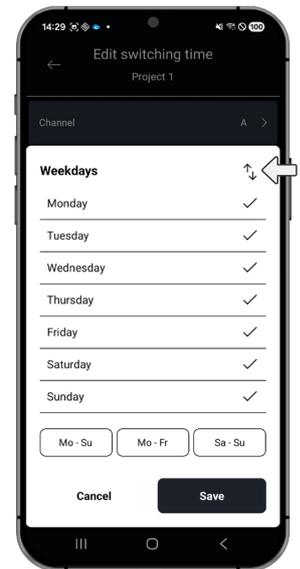
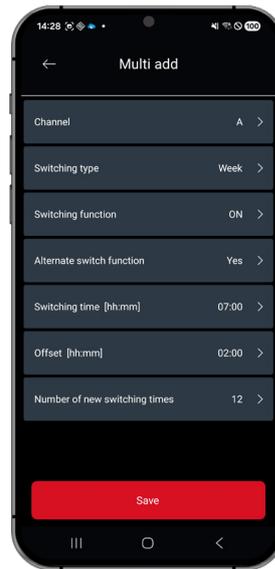


5 Create Multiple Switching Times

1. Open a project.
1. Click the **+** icon.
2. Then click the „**⊕** Multiple Create“ icon in the top right corner.
3. Adjust your desired settings by clicking on the listed fields and making your selections.
4. Click “Save” to create the switching times.

6 Invert Weekday Selection

1. Open a project.
2. Click on the switching time you want to edit.
3. Click on “Weekdays” to select the weekdays.
4. Click the **↕** invert icon to reverse the selection
5. Then click “Save” to apply the updated weekday selection.



3. Remote

In the Remote area, you have the option to connect to your pro5 devices via Bluetooth. You can control your devices manually and adjust their switching times and settings.

1 Use Device in Remote Mode

1. Switch to the Remote section.
2. Click the **+** icon in the top right corner.
3. Press the "OK" button on the timer until "BT" flashes on the display.
4. In the app, select your device from the list under "Found Devices."
5. Once the connection is successful, "Connected" will briefly appear on the device display.
6. The app will then switch to the Remote view of the connected device.

2 Control Device via Remote

1. Follow step **1** to connect the device.
2. Use the ON/OFF buttons to switch the device on or off.
Press and hold for approximately 3 seconds to activate or deactivate the permanent function.

3 Adjust Settings via Remote

1. Follow step **1** to connect the device.
2. Click the gear  icon in the top right corner to open and adjust the settings.
For more information about the settings, see page 23.

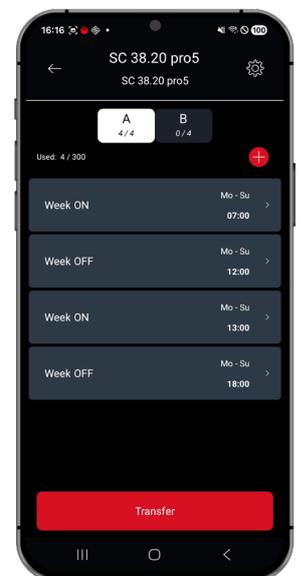
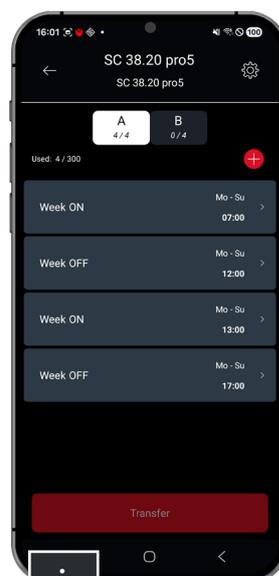
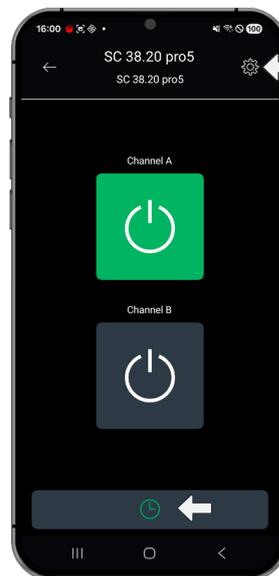
4 Adjust Switching Program via Remote

1. Follow step **1** to connect the device.
2. Click the  icon to open the switching schedule. Edit the switching times as desired.
3. Click "Transfer" to apply the changes to your device.



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To ensure that your pro5 time switch appears in the list, it must be powered on and Bluetooth must be activated by pressing the OK button.



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The "Transfer" button becomes active as soon as changes are made to the switching program.

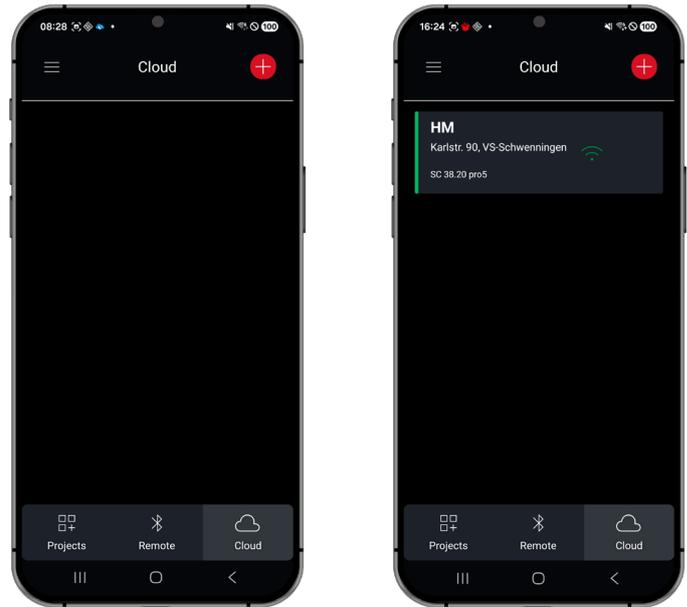
4. Cloud

In this section, you can manage your pro5 timers. Thanks to the Wi-Fi connection, you can control, program, and monitor your devices remotely - whether you are in the office, at home, or on the go.

The cloud automatically synchronizes all settings between the app and the device. This way, you always have an overview of your switching times and can make changes in real time - quickly, securely, and conveniently.

1 Add a New Device via Cloud

1. Go to the Cloud section.
2. Click the **+** icon in the top right corner.
3. Press the "OK" button on the timer until "BT" flashes on the display.
4. In the app, select your device from the list under "Discovered Devices".
5. Once successfully connected, "Connected" will briefly appear on the device display.
6. Assign a name to your device.
7. Optional: Add an installation location.
8. Enter the Wi-Fi network you want to use and the corresponding password.
9. Click "Create" to add your device to the Cloud section.



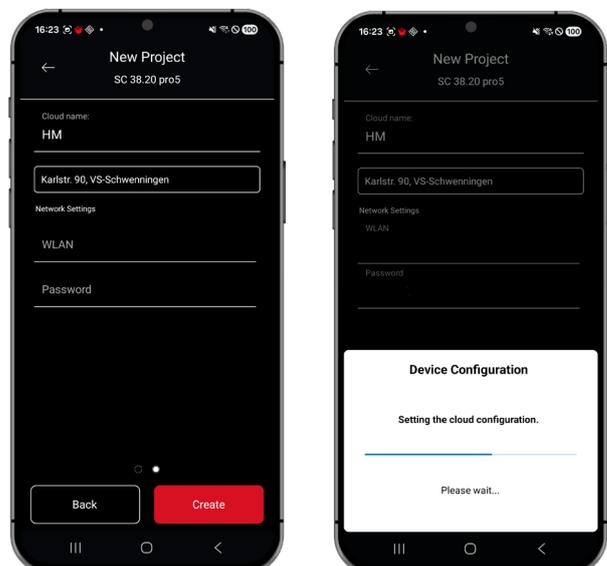
i

To see your pro5 timer in the list, you must connect it to a power supply and activate Bluetooth by pressing the OK button.



i

When the connection is successfully established, the Wi-Fi and Cloud symbols will be displayed steadily (not flashing) on the timer's screen.



2 Manual Operation / Remote

1. Follow step **1** to connect the device.
2. Switch your timer on/off manually by pressing the On/Off buttons.
At the next switching time stored in the schedule, the timer will automatically return to automatic mode and execute the programmed schedule.
3. Press and hold the On/Off buttons for approximately 3 seconds to activate/deactivate the permanent function.
The manual permanent override supersedes the stored switching program, e.g., to implement a holiday schedule.

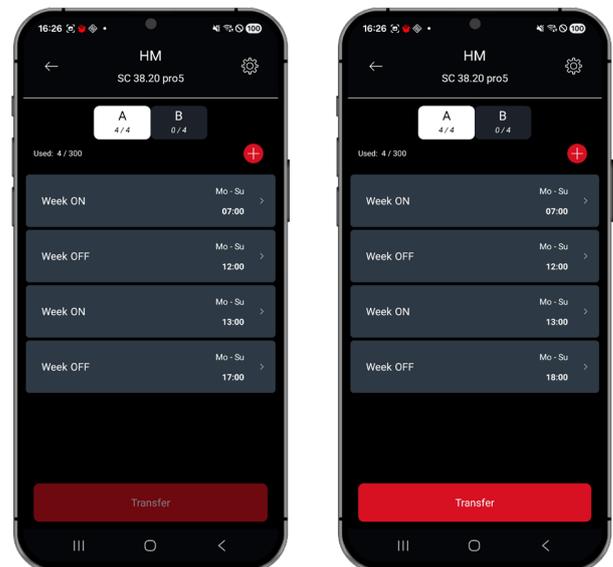


3 Create / Edit a Switching Program

1. Follow step **1** to connect the device.
2. Click the ⌚ icon to open the switching times.
3. Edit the switching times as desired.
4. Click "Transfer" to apply the changes to your device.

i

The "Transfer" button becomes active as soon as changes are made to the switching program.

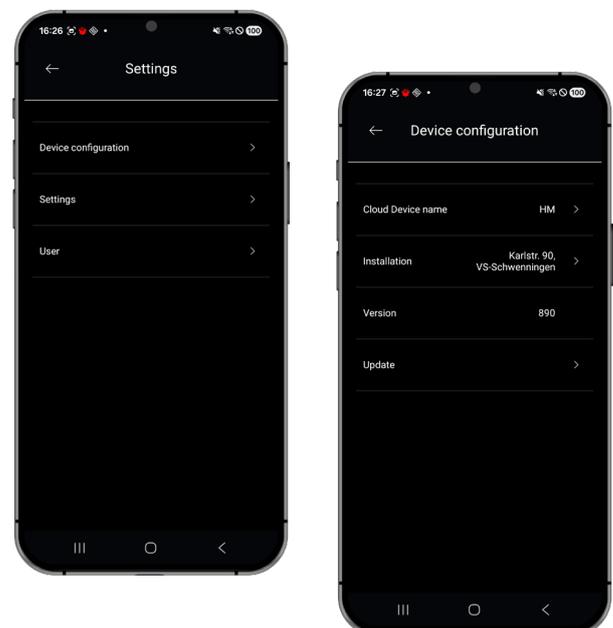


4 Adjust Device Configurations

1. Follow step **1** to connect the device.
2. Click the gear ⚙ icon in the top right corner and select Device Configuration to open and edit it.
3. Make the desired changes and apply them by pressing "Save".

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Under Device Configuration, you have the option to update your device if a new firmware update is available.



5 Make / Adjust Settings

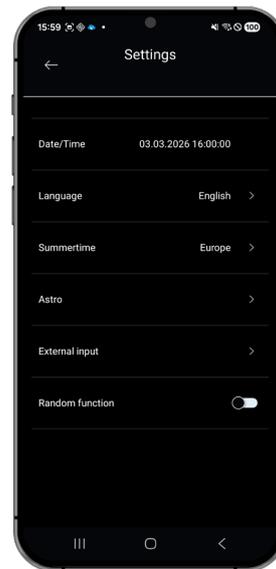
1. Follow step **1** to connect the device.
2. Click the gear  icon in the top right corner and select Settings to open and edit it. For more information about the settings, please refer to page 23.

6 Share Timer with Additional Users

1. Follow step **1** to connect the device.
2. Click the gear  icon in the top right corner and select Device Configuration to open and edit it.
3. An overview of all registered users will be displayed. Click the  icon in the top right corner to add additional users.
4. Enter the email address of an existing Save'n carry 2.0 account.

7 Delete a User

1. Follow step **1** to connect the device.
2. Click the gear  icon in the top right corner and select Device Configuration to open and edit it.
3. Delete a user by swiping the corresponding email address to the right and clicking the "x".



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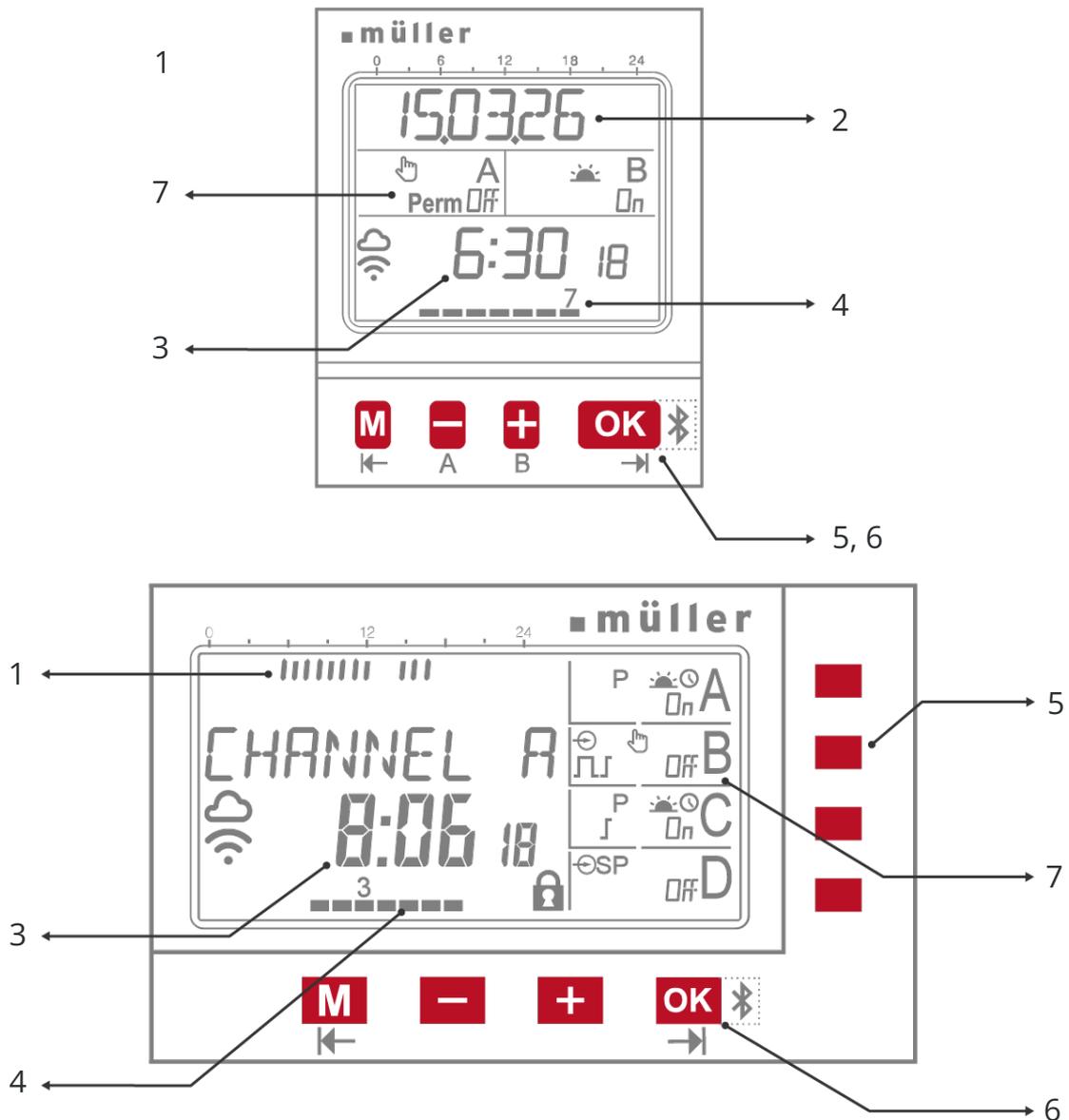
All registered users have the same permissions.

i

At least one user must always remain assigned.

The Time Switch

Display & Operation



Explanation of the Display

1. Graphical preview with timeline. Indicates when the timer is switched to ON.
2. Display of the current date / Display of the current channel, which switches automatically.
3. Current time.
4. Display of the current day of the week. 3 = Wednesday.
5. Channel buttons for manually switching channels.
6. Control buttons for navigating through the timer menu and activating Bluetooth.
7. Current switching state per channel.

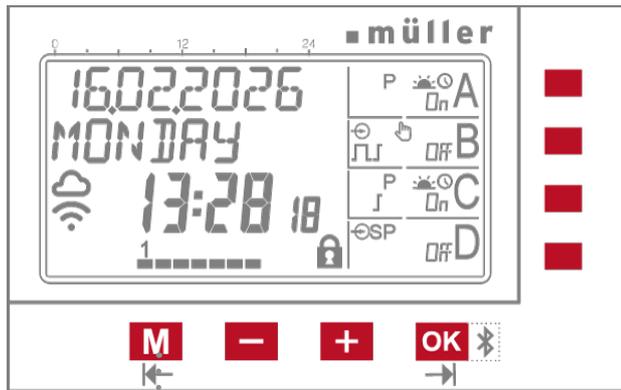
Control buttons

<p>M ←</p>	<ol style="list-style-type: none"> 1. Switch from automatic mode to input mode. 2. Back function (one level up)
<p>- A</p>	<ol style="list-style-type: none"> 1. Input mode: Option to select between different choices or change the blinking position (minus/ subtract). 2. Channel settings for timers with 1-2 channels.
<p>+ B</p>	<ol style="list-style-type: none"> 1. Input mode: Option to select between different choices or change the blinking position (plus/add). 2. Channel settings for timers with 1-2 channels
<p>OK →</p>	<ol style="list-style-type: none"> 1. Confirm selection or programming (one level down). 2. Activates Bluetooth for transmission (only for pro4 devices).

Symbol Explanation

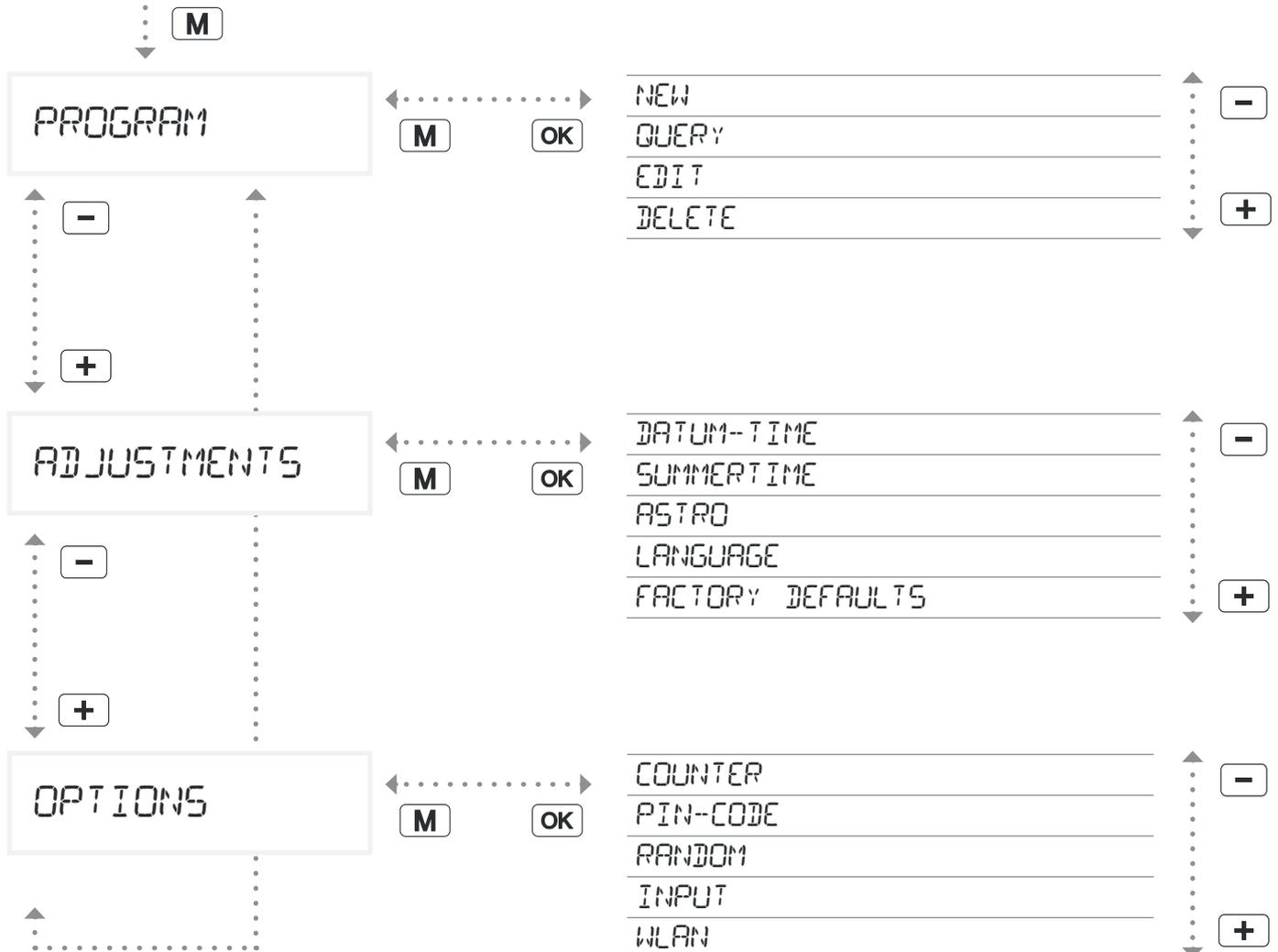
	Channel is ON / Programming ON. A short press of the channel button turns the channel on/off.
	Channel is OFF / Programming OFF. A short press of the channel button turns the channel on/off.
	Days of the Week Mo (1) - Su (7). In programming mode, underscores indicate which days of the week are activated. The current day is displayed on the start screen, e.g., 5 = Friday.
	Current Switching State Based on a Programmed Standard Switching Time (see page 12).
	Current Switching State Based on Manual Program Switching. Changed by the stored program at the next switching time
Perm 	Current Switching State Based on a Permanent Switching Time Stored in the Switching Program. Deactivated when the period of the stored permanent program has ended.
Perm 	Current Switching State Based on Manual Switching and Remains Permanent Until Manually Reset. Manual activation or reset by pressing the channel button for 3 seconds.
	Current Switching State Based on Pulse Switching Time.
	Current Switching State Based on Cycle Switching Time (Timer Function).
	Current Switching State Based on Astro Times (Sunset or Sunrise) with Possible Programmed Offset.
	Displayed When „External Input“ is Activated.
	Is displayed continuously when the Wi-Fi connection is active.
	Is displayed continuously when the Cloud connection is active.
	Is displayed continuously when the Bluetooth connection is active.
	DCF / GPS: The timer receives the time signal via the radio receiver.
	The timer is locked with a PIN; PIN entry is required.
	Switching program / switching time with Easter function enabled. The switching program takes into account the annual change of Easter and automatically adjusts the date of the switching time(s).

Menu Navigation



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Not every timer has all menu options. This overview is intended to provide a general guide.



Each of the listed functions has additional sub-functions or settings that can be navigated using the +/- buttons.

Function Overview

PROGRAM

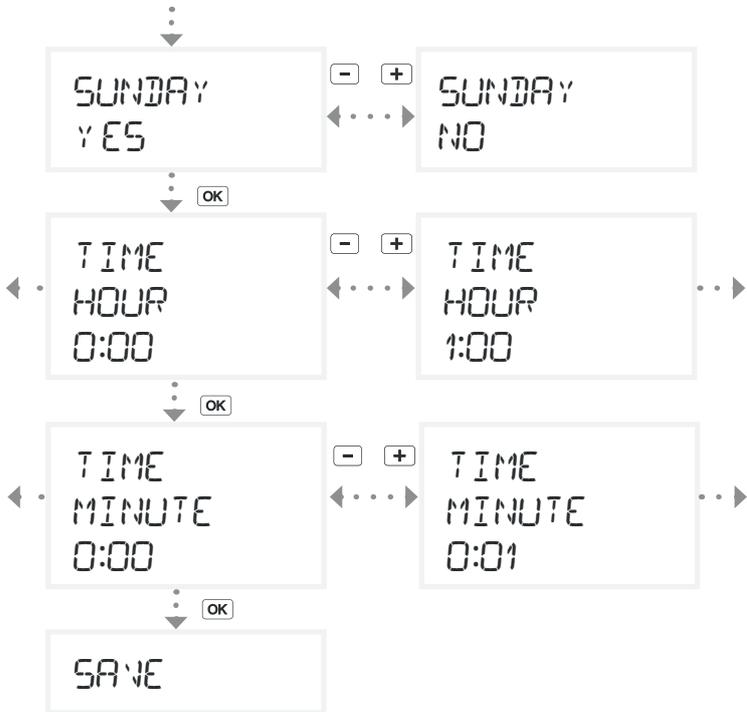
- + **New:** Program new switching times.
- + **Query:** Query the stored switching times.
- + **Edit:** Modify existing switching times.
- + **Delete:** Delete switching times.

ADJUSTMENTS

- + **Date-Time:** Option to adjust the date and time.
- + **Daylight Saving Time:** Adjustment of the automatic summer/winter time change according to local conditions.
- + **Astro Data:** Define the geographic region or enter coordinates.
Astro Function: Select the switching mode: Standard, Inverted, or Pulse.
- + **Language:** Adjust the menu language.
- + **Factory Settings:** Reset the timer to factory settings.

OPTIONS

- + **Counter:** Counts the on-time and the number of switching operations per channel, as well as the total time connected to the mains.
- + **PIN Code:** The timer can be locked with a PIN code to prevent unauthorized access.
- + **Random:** When activated (Yes), existing switching times are randomly shifted to simulate presence.
- + **Input:** Here, switches and push-buttons can be configured and assigned functions such as "Permanent ON" or "OFF."
- + **WLAN:** Here, you can enable (Yes) or disable (No) Wi-Fi on the timer.

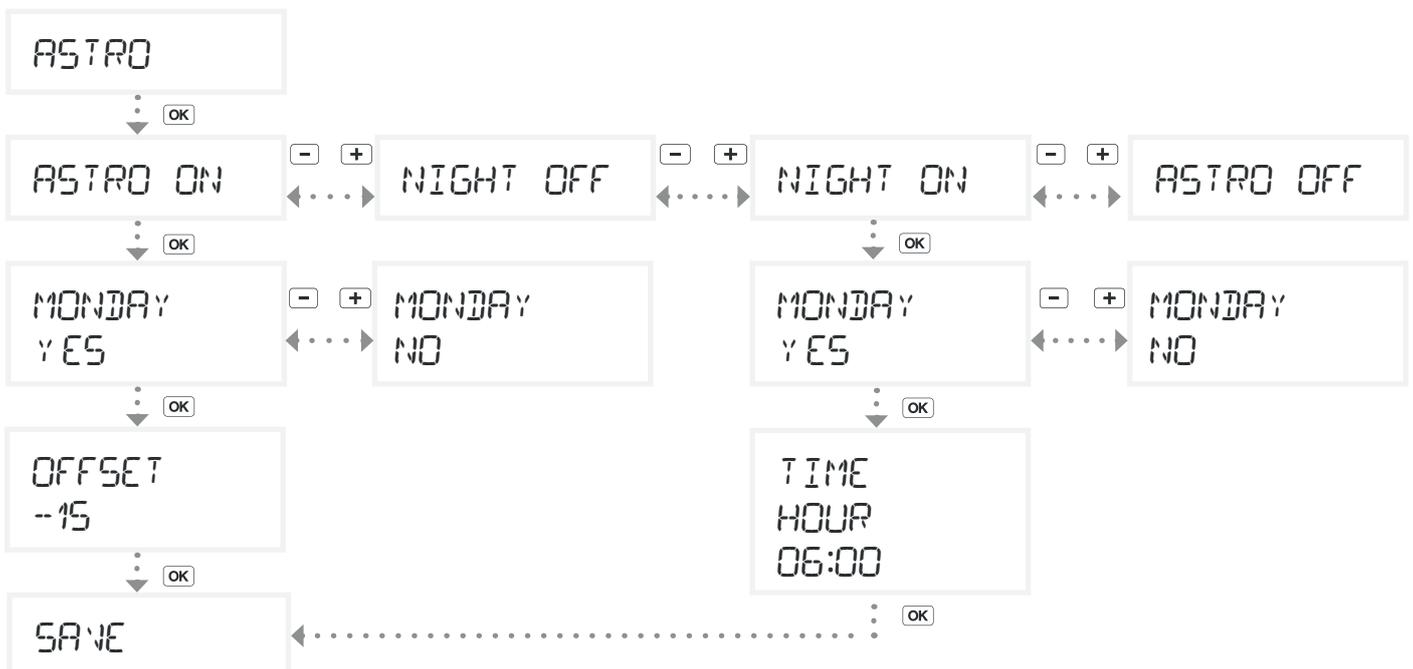


i Flashing values when entering the time or date indicate the position that can be adjusted. You can change the values using the **-** or **+** button.

3 Create an Astro Switching Time

1. Follow the steps in point **1**.
2. Select switching function: Choose the desired astro switching function (e.g., Astro On / Off or Night On / Off) using the **-** / **+** buttons.
3. Set weekdays: Select the weekdays for which the switching time should apply by choosing "Yes."
 - Switch between "Yes" and "No" using the **-** / **+** buttons.
4. Set offset: Specify the offset by adjusting the value (-90 to +90 minutes) using the **-** / **+** buttons.
5. The switching time will be saved.

→ More about Astro switching times on page 13.



4 Create a Permanent Switching Time

1. Follow the steps in point **1**.
2. Switch between programs: Press \square / \square buttons until the program "Permanent" is displayed.
3. Select switching function: Choose the desired switching function (ON / OFF) using \square / \square .
4. Define time period: Enter the start date and start time by adjusting the flashing digits. Then repeat the steps to set the stop date and stop time.
5. Select the desired function (see page 15) and confirm your selection.
6. The switching time will be saved.



→ More about Permanent on page 14.

5 Create a Special Program

1. Follow the steps in point **1**.
2. Switch between programs: Press the \square / \square buttons until "Specialprogram" is displayed.
3. Select special program: Press the \square / \square buttons to select Special Program (SP) 1 to 10.
4. Confirm "Input" with \square and define the switching times for your special program.
5. For activation, follow the steps described in point **5**.

→ More about Special Program on page 14.

6 Activate a Special Program

1. Follow the steps in point **1**.
2. Switch between programs: Press the \square / \square buttons until "Specialprogram" is displayed.
3. Select special program: Press the \square / \square buttons to select Special Program (SP) 1 to 10..

4. Use the \square / \square buttons to navigate to "Activation" and confirm with \square .
5. Define time period: Enter the start date and start time by adjusting the flashing digits. Repeat the steps to set the stop date and stop time.
6. Select the desired function (see page page 15) and confirm your selection.
7. The special program is activated for the specified period.

7 Create an Extra Switching Time

1. Follow the steps in point **1**.
2. Switch between programs: Press the \square / \square buttons until "Extra" is displayed.
3. Select switching function: Choose the desired switching function (ZS ON / ZS OFF / ZS Pulse / ZS Cycle) using the \square / \square buttons.
4. Define switching time:
 - Date: Enter the date by adjusting the flashing digits.
 - Time: Enter the time by adjusting the flashing digits.
5. Select the desired function (see page 14) and confirm your selection.
6. The switching time will be saved.

→ More about Extra switching times on page 15.

8 Create a Pulse

1. Follow the steps in point **1**.
2. Switch between programs: Press the \square / \square buttons until "Standard," "Extra" or "Special Program" is displayed.
3. Use the \square / \square buttons to select the switching function "Pulse."
4. Set weekdays: Select the weekdays for which the switching time should apply by choosing "Yes."
 - Switch between "Yes" and "No" using \square / \square .
5. Set time: Enter the time by adjusting the flashing digits with the \square / \square buttons.
6. Define pulse duration: Set the pulse duration by adjusting the flashing digits with the \square / \square buttons.
7. The switching time will be saved.

9 Create a Cycle Switching Time (see page 11)

1. Follow the steps in point **1**.
2. Switch between programs: Press the \square / \square buttons until "Standard," "Extra" or "Special Program" is displayed.
3. Use the \square / \square buttons to select the switching function "Pulse."
4. Set weekdays: Select the weekdays for which the switching time should apply by choosing "Yes."
 - Switch between "Yes" and "No" using \square / \square .
5. Set time: Enter the time by adjusting the flashing digits with the \square / \square buttons.
6. Define a Cycle:
 - Create a new cycle by confirming "New Cycle" with the \square button. Use \square / \square to move to the next available cycle slot.
Set time: Define the ON time by adjusting hours, minutes, and seconds with the \square / \square buttons and confirm with \square . Repeat this step to set the pause time.
 - Alternatively, select an existing cycle: Use \square / \square buttons to switch between the available cycles. Confirm your selection with \square .
7. The switching time will be saved.

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You can end the cycle switching time by setting an OFF time.

Additional Program Options

1 Query Program

1. Switch to input mode with \square .
2. On the display, select "Program" and confirm with \square .
3. Press \square / \square until "Program Query" is displayed and confirm with \square .
4. The number of total available memory slots will be shown.
 - Use \square to check the number of used memory slots for each channel. Switch between channels with \square / \square .
5. Display Switching Times: To get more detailed information about a channel, press \square on any channel.
 - Use \square / \square to select the desired switching type or choose "All" to query all switching times of the channel and confirm with \square .
 - You can now use \square / \square to switch between the set switching times.

2 Modify / Edit Program

1. Switch to input mode with **M**.
2. On the display, select "Program" and confirm with **OK**.
3. Press **-** / **+** until "Edit Program" is displayed and confirm with **→** **OK**.
4. The number of total available memory slots will be shown.
 - Use **OK** to check the number of used memory slots for each channel. Switch between channels with **-** / **+**.
5. Display Switching Times: To get more detailed information about a channel, press **OK**.
 - Use **-** / **+** to check the number of used memory slots for each channel. Switch between channels with **OK**.
 - You can now use **-** / **+** to switch between the set switching times.
6. Edit Switching Time: Press **OK** on the switching time you want to adjust to enter edit mode.
 - Use **-** / **+** to make the desired adjustments. Confirm each adjustment with **OK** until "SAVE" is displayed.
7. The modified switching time will be saved.

3 Delete Program

1. Switch to input mode with **M**.
2. On the display, select "Program" and confirm with **OK**.
3. Press **-** / **+** until "Delete Program" is displayed and confirm with **OK**.

Delete All Switching Times of a Channel

- Select a channel with **OK** from which you want to delete all switching times.
- Press **OK** when "(Channel) Delete All" is displayed.
- Confirm again with **OK**.

Delete All Switching Times of a Channel with a Specific Switching Type

- Select a channel with  from which you want to delete a switching type.
- Use  /  to navigate through the switching types and select the one you want to delete
- Press  when “(Switching Type) Delete All” is displayed.
- Confirm again with .

Delete Individual Switching Times

- Select a channel with  from which you want to delete a switching type.
- Use  /  to navigate through the switching types and select the type from which you want to delete a switching time. Confirm with .
- Use  /  to navigate through the individual switching times and select the one you want to delete. Confirm with .
- Press .

Delete All Switching Times

- Switch through the channels with  /  until “Delete All” is displayed at the end.
- Press .
- Confirm again with .

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Attention: Deleted switching times cannot be restored. If you have saved the program file, you can transfer it back to the timer.

Settings

1. Switch to Input Mode with **M**.
2. On the display, select "Program" and switch to the "Settings" tab using **+**. Confirm with **OK** to enter the settings.

1 Adjust Date and Time

1. Press **-** / **+** until "Date-Time" is displayed and confirm with **OK**.
2. Set Date and Time
 - Date: Enter the date by adjusting the blinking positions with **-** / **+** and confirm with **OK**
 - Time: Enter the time by adjusting the blinking positions with **-** / **+** and confirm with **OK**
3. Your changes will be saved as soon as "Save" appears on the display.

DATE--TIME

2 Adjust Summertime

1. Press **-** / **+** until "Summertime" is displayed and confirm with **OK**.
2. Set Summertime
 - Change the settings using **-** / **+** and confirm your adjustments with **OK**.
3. Your changes will be applied as soon as "Save" appears on the display.

SUMMERTIME

3 Set Astro Data

1. Press **-** / **+** until "Astro" is displayed and confirm with **OK**.
2. Press **-** / **+** until "Data" is displayed and confirm with **OK**.
3. Set Astro Time by Zone (Recommended)
 - Switch between country codes until you find the desired target country (e.g., "DE" for Germany) and confirm with **OK**.
 - Enter the first two digits of the target zip code by adjusting the value with **-** / **+** and confirm with **OK**.

ASTRO--DATA

4. Set Astro Time by Coordinates
 - Enter the target latitude by adjusting the value with \ominus / \oplus and confirm with OK .
 - Enter the target longitude by adjusting the value with \ominus / \oplus and confirm with OK .
 - Enter the target time zone by adjusting the value with \ominus / \oplus and confirm with OK .
5. Your changes will be saved as soon as "Save" appears on the display.

4 Set Astro Function

ASTRO-FUNCTION

1. Press \ominus / \oplus until "Astro" is displayed and confirm with OK .
2. Press \ominus / \oplus until "Function" is displayed and confirm with OK .
3. Set Astro Function
 - Switch through the options with \ominus / \oplus and and confirm with OK .
4. Your changes will be saved as soon as "Save" appears on the display.

5 Change Language

LANGUAGE

1. Press \ominus / \oplus until "Language" is displayed and confirm with OK .
2. Set Language
 - Switch through the options with \ominus / \oplus and and confirm with OK .
3. Your changes will be saved as soon as "Save" appears on the display.

6 Reset to Factory Defaults

FACTORY DEFAULTS

1. Press \ominus / \oplus until "Factory Defaults" is displayed and confirm with OK .
2. Warning: Resetting the timer to Factory Defaults will erase all switching times and settings. Confirm with OK .
3. Your timer has been reset when "Memory Empty" appears on the display.
4. You can now begin the initial setup again (see page 9).

Options

1. Switch to the input mode with **M**.
2. The display will show the "Program" option. Use the **+** to navigate to the "Options" tab. Confirm with **OK** to enter the settings.

1 Counter

1. Press **-** / **+** until "Counter" is displayed and confirm with **OK**.
2. Switch between the channels with **-** / **+** to display the on-time duration, the number of switchings per channel, and the total duration on the network.

COUNTER

2 Secure Timer with PIN Code

1. Press **-** / **+** until "PIN Code" is displayed and confirm with **OK**.
2. Switch to "Yes" with **-** / **+** if you want to create a PIN code and confirm with **.**
 - Select "No" if you want to remove the PIN.
3. Enter your 4-digit PIN by adjusting the value with **-** / **+** and confirm each digit with **OK**.
4. Your PIN will be saved as soon as "Save" appears on the display. A lock symbol will now be visible.

PIN-CODE

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After the PIN is created, the timer can only be operated by entering the PIN code.

3 Activate Random Switching Times

1. Press **-** / **+** until "Random" is displayed and confirm with **OK**.
2. Switch to "Yes" with **-** / **+** if you want to activate random shifting of switching times and confirm with **OK**.
 - Select "No" if you want to deactivate random switching.
3. Your changes will be saved as soon as "Save" appears on the display

RANDOM

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Random: When activated (Yes), existing switching times will be randomly shifted to simulate presence.

4 Configure Input

1. Press \square / \square until „Input“ is displayed and confirm with \square .
2. Select between push button and switch with \square / \square depending on what is connected as an external input and confirm with \square .
3. Activate the channel(s) with (yes) or deactivate with (no) and confirm each with \square .

INPUT

Push-button

4. Switch between change function, timer function, and staircase lighting with \square / \square .
5. **Timer Function:** Enter the hour, minute, and
6. second with \square / \square and confirm with \square .
7. **Change Function.**
8. **Staircase Lighting:**
 - Use \square / \square to change whether you want to switch downstream or switch off by pressing the button and confirm with \square .
 - Use \square / \square to change whether a switchoff pre-warning should be executed and confirm with \square .
 - Enter the switch-on time (minute) with \square / \square and confirm with \square .

Switch

4. Switch between Permanent On, Permanent Off, and SP Activation with \square / \square . Confirm your selection with \square .

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Permanent Aus z. B. für Ferien.

5 Activate / Deactivate WLAN

1. Press \square / \square until „WLAN“ ist displayed an confirm with \square .
2. Activate WLAN with (yes) or deactivate with (no) and confirm with \square .

WLAN



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