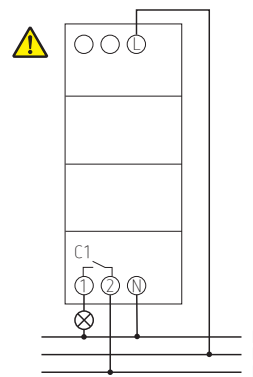


## Digital Astro-Week Time Switch, Tempus Digital, 1 Channel (BZT18D011A)



- Install on DIN top hat rails (in accordance with EN 60715)
- Disconnect power source
- Cover or shield any adjacent live components
- Ensure device cannot be switched on
- Check absence of voltage
- Earth and bypass

### Connecting the time switch



- Correct connection required for smooth zero-cross switching operation

## 1. Basic safety information

**WARNING**  
**Danger of death from electric shock or fire!**  
 ➤ Installation should only be carried out by a qualified electrician!

- The device is designed for installation on DIN top hat rails (in accordance with EN 60715)
- Corresponds to type 1 STU nach IEC/EN 60730-2-7

## 2. Proper use

- The astronomic time switch is used, for instance, for lighting equipment (roads, external staircases, display windows, entrances etc.)
- Only for use in closed, dry rooms

**!** Do not use on safety devices, e.g. escape route doors, fire safety equipment etc.

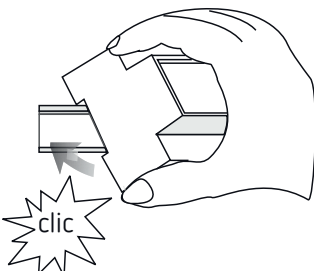
### Disposal

- Dispose of device in environmentally sound manner

## 3. Installation and connection

**WARNING**  
**Danger of death from electric shock or fire!**  
 ➤ Installation should only be carried out by a qualified electrician!

### Time switch installation



## 4. Device description

### Display & buttons

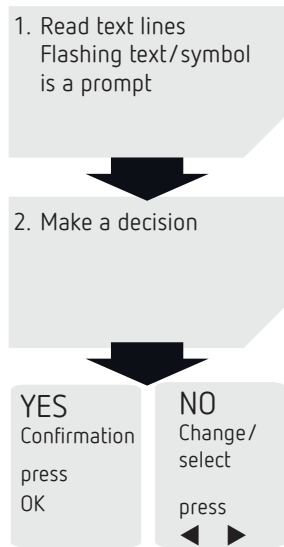
Programmed ON times  
 Date display  
 Channel status On, Off  
 Sunrise/sunset display  
 Time display  
 Days of the week from 1 to 7  
 Anzeige der aktiven Tasten mit den jeweiligen Funktionen

➤ **MENU** — Activate screen  
 — Open menu  
 — Cancel menu  
 — ESC (leave menu)

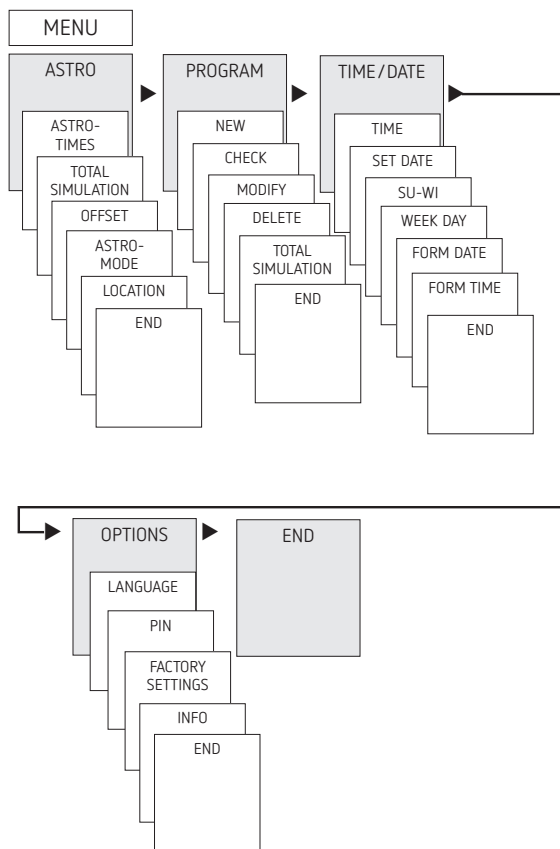
➤ **OK** — Store selection  
 — Confirm selection

Selection options are displayed

## Operating instructions

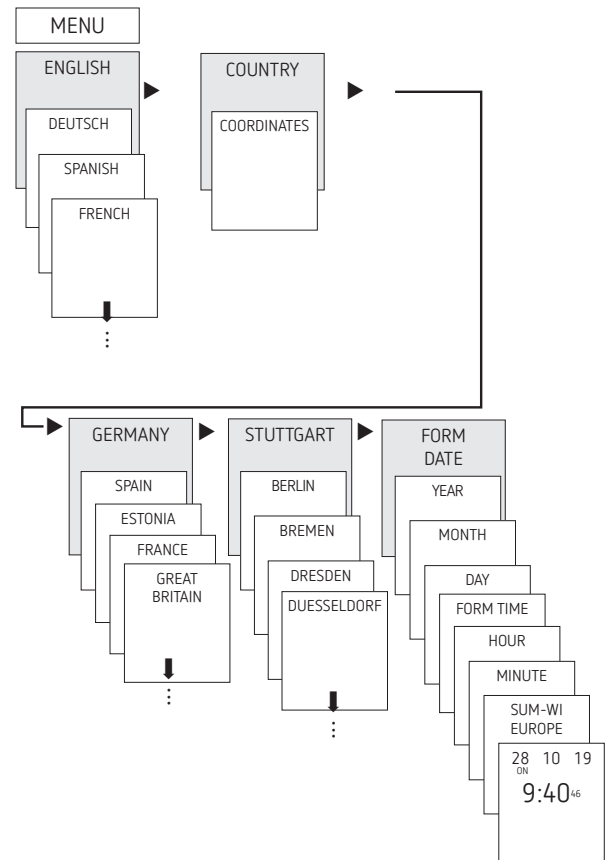


## Overview of menu selection



## Initial start-up

① Since the device does not have a battery, it must be connected to the power supply during start-up, so time and date can be set.



- Set language, country, town / city, date, time as well as summer / winter time (SO-WI)
- Press any button and follow on-screen instructions (see figure)

## 5. Settings and functions

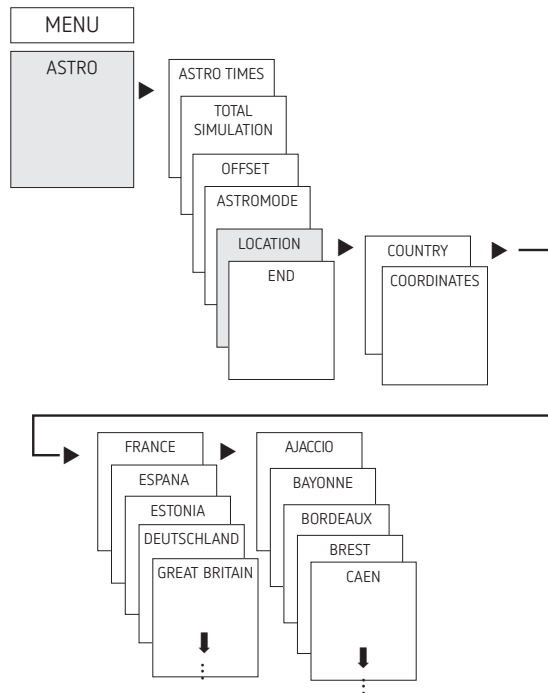
### ASTRO menu

In the ASTRO menu astro times, complete simulation, offset, astromode as well as position (location) can be viewed or changed.

- Astro times  
Display of the astro times (including the offsets) for the current day
- Total simulation  
Display of the switching behaviour with a freely selectable Start date
- Offset  
The offset (adjustment value) can be used to shift calculated astro times  $\pm 120$  min. This enables the Astro switch-on and switch-off times to be adapted to local circumstances (e.g. mountains, high buildings etc.) or to personal requirements.
- Astro mode
  - Evenings on, mornings off Switches: on at sunset, switches off at sunset (Example: street lighting)
  - Evenings off, mornings on Switches off: at sunset, switches on at sunrise (Example: terrarium).
  - Astro inactive: The astro times are ineffective (timer function only).

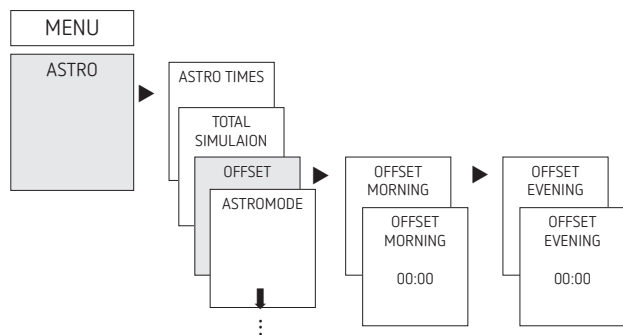
- Position
  - Location set by selecting a city or by coordinates (latitude/longitude, time zone).

### Change astro time/position



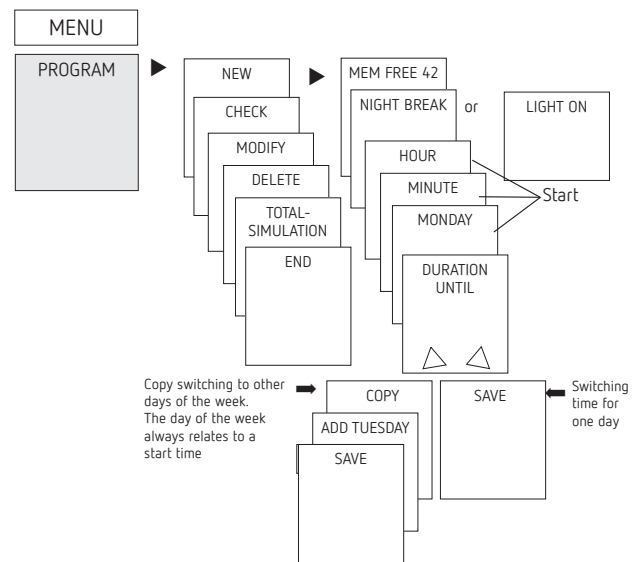
E.g. enter a different country, a different town/city  
 ▶ Press MENU (see picture).

### Setting the offset function



- ▶ Press MENU
- ▶ Select ASTRO and press OK to confirm
- ▶ Select OFFSET and press OK to confirm
- ▶ Select OFFSET MORNING or OFFSET EVENING and press OK to confirm
- ▶ Set the time and press OK to confirm

### Set fixed switching time

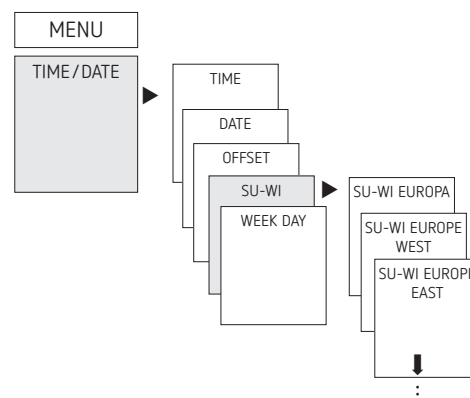


① A switching time always consists of a start time and an end time (LASTS UNTIL). e.g. night switch-off on Monday 23:00 – 05:00 hrs

① There are 42 memory cells available

- ▶ Press MENU
- ▶ Select PROGRAM and press OK to confirm
- ▶ Select NEW and press OK to confirm
- ▶ Select NIGHT SWITCH OFF or DAY SWITCH ON and press OK to confirm
- ▶ Set selected switching times (hours, minutes, day) and press OK to confirm
- ▶ Select COPY or SAVE
- ▶ To save press ▶ and press OK to confirm
- ▶ To copy press OK

### Setting summer/winter time

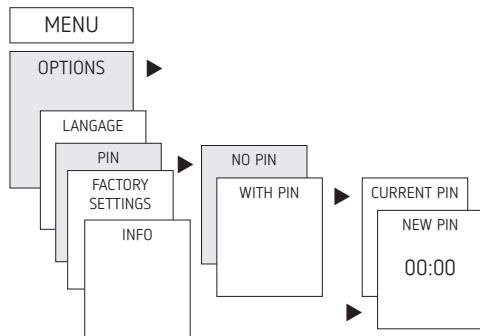


- ▶ Press MENU
- ▶ Select TIME/DAT and press OK to confirm
- ▶ Select SO-WI and press OK to confirm
- ▶ Select region for the SO-WI time and press OK to confirm

## Activate PIN-Code

The PIN code is set in OPTIONS via the menu.

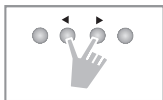
- ① If you have lost the PIN, please call the Theben Hotline.
- ① Have the serial number ready!



## Setting manual or permanent switching

Manual and permanent switching can be set in the automatic screen by key combination (see fig).

- Manual control  
Reversing the channel status to the next automatic or programmed switching.
- Permanent switching  
As long as a permanent switching (on or off) is activated, the programmed switching times are ineffective.



### Activate manual switching

- Briefly press both keys simultaneously

### Activate permanent switching

- Simultaneously press both keys for 2 seconds

### Cancelling manual/permanent switching

- Press both keys simultaneously

### Resetting the time switch

- Press the 4 buttons simultaneously.  
→ You can choose between RETAIN PROGRAM and DELETE PROGRAM.

## 6. Technical Data

Operating voltage:	230 V AC +10 % / -15 %
Frequency:	50-60 Hz
Standby:	0,54 W
Max switching capacity.:	16 A (at 250 V AC, cos φ = 1)
Switching capacity:	2 A (at 250 V AC, cos φ = 0,6)
Min. switching capacity:	10 mA/230 V AC 100 mA/24 V AC/DC
Switch output:	switching of any phase is permitted
Protection rating:	IP 20 in accordance with EN 60529
Protection class:	II in accordance with EN 60730-1 subject to designated installation
Operating temperature:	-30 °C ... +55 °C
Power reserve:	48 hours, rechargeable
Switching accuracy:	accurate to the second
Time accuracy (typical):	± 0,5 s/day (25 °C)
Rated impulse voltage:	4 kV
Pollution degree:	2
Software class:	A
Contact:	NO contact
Max. switching cycles with 16 A resistive load	50 000
Incandescent lamp load:	2600 W
Halogen lamp load:	2600 W
Fluorescent lamps (LLB low-loss ballasts):	
uncorrected	2600 VA
series-corrected	2600 VA
parallel-corrected	650 VA ( 72 µF)
Fluorescent lamps (EB):	600 W
LED-lamps (< 2 W):	30 W
LED-lamps (> 2 W):	300 W

- ① The time switch display is only fully functional at temperatures from +5 °C - +55 °C.