

12

Safety precautions

- The connection and installation of electrical devices may only be carried out by a qualified electrician.
- · Interventions in and changes to the device result in the voiding of the warranty claim.
- Observe your national regulations and the respective safety provisions.
- Fixed and flexible conductors of up to 10 mm² may be attached to the external terminal clips.
- Flexible cables with a cross-section < 1 mm² should not be attached.

General information

- · Deactivation commands take priority over activation commands.
- If the power supply is correct, the dots shown between the hours and minutes (HH:MM) are displayed permanently. The dots flash if the power supply is interrupted.
- If there is no power supply, the position indicator display goes out after 2 minutes.
- · The whole display flashes the battery needs to be changed for up to 2 weeks to warn that.

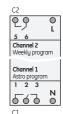


Installation on DIN rail

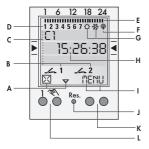


Terminal diagram









Displau

- A Function displays of the two left-hand buttons
- B Channel status displays

 1 = Channel 1 ON
 - ✓ 1 = Channel 1 OFF Channel 1 = C1. Channel 2 = C2
- C 3 communication lines for time displau.
- menu items, entry prompts etc.
- D Day-of-week display

 E Overview of dailu switching program
- F Radio antenna
- G Display of summer/winter time
- H Operating voltage (permanently lit dots) Reserve power operation (dots flash)
- I Function displays of the two right-hand buttons

General information

- The middle communication line shows the selectable menu item. If confirmed with OK, this item is activated.
- · Flashing texts or symbols require an entry.
- If no entries are made within the next
 minutes, the clock reverts to Auto mode.
- The programs are retained in the case of a reset. The date and time must be set again. Press reset button with a blunt object (pen).
- K Right-hand buttons

Ruttons

I Reset

 Left-hand buttons with manual switch function in Automatic mode

Function displays of the two left-hand buttons:

△ scroll up in menu

 ✓ scroll down in menu

 ✓ Select/reject suggestion

Select/accept suggestion
 Pressing briefly = +1

Pressing long (approx. 2 sec) = +5

Pressing briefly = -1
Pressing long (approx. 2 sec) = -5

Function displays of the two right-hand buttons:

MENU Exits the Automatic mode and enters the Programming mode

ESC Pressing briefly = one step back Pressing long (approx. 2 sec) = return to Automatic mode

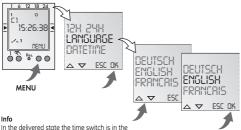
OK Make selection and apply

EDT Change request in Read mode NO Do not execute command

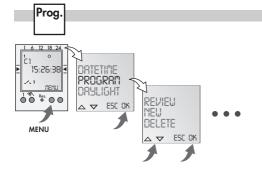
YES Execute command

DEL Delete

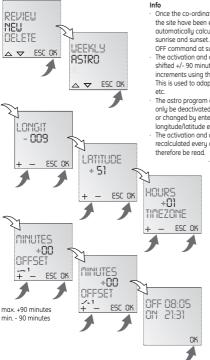
Initial start-up - selection of menu language



In the delivered state the time switch is in the Auto mode with a preset time, date and the menu language English.

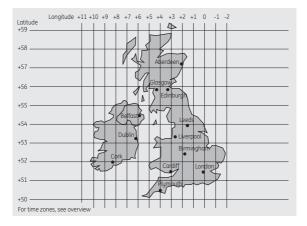


Astro program



- · Once the co-ordinates (longitude/latitude) of the site have been entered, the astro program automatically calculates the daily time of sunrise and sunset ON command at sunset OFF command at sunrise
- The activation and deactivation times can be shifted +/- 90 minutes in one-minute increments using the OFFSET function. This is used to adapt to local circumstances
- The astro program cannot be deleted. It can only be deactivated using the manual switch or changed by entering new coordinates for lonaitude/latitude etc.
- The activation and deactivation times are recalculated every day. The program cannot
 - The activation and deactivation times can he read off from the overview of the daily switching program (D) or upon completion of programming and once confirmed by pressing OΚ

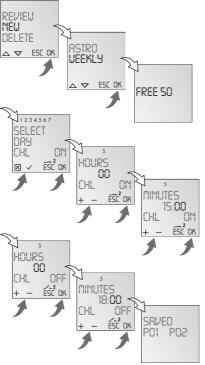




Site	Longitude	Latitude	Site	Longitude	Latitude
Aberdeen	+2	+57	Limerick	+9	+53
Belfast	+6	+55	Liverpool	+3	+53
Birmingham	+2	+52	London	+0	+52
Brighton	+0	+51	Londonderry	+7	+55
Cardiff	+3	+51	Newcastle	+2	+55
Cork	+8	+52	Norwich	-1	+53
Coventry	+2	+52	Nottingham	+1	+53
Dublin	+6	+53	Oxford	+1	+52
Dundee	+3	+56	Plymouth	+4	+50
Edinburgh	+3	+56	Sheffield	+1	+53
Galway	+9	+53	Southampton	+1	+51
Glasgow	+4	+56	Southend	-1	+52
Inverness	+4	+57	Stoke	+2	+53
Ipswich	-1	+52	Swansea	+4	+52
Kilkenny	+7	+53	Waterford	+7	+52
Leeds	+2	+54	York	+1	+54

Definition of location: http://www.multimap.com

Weekly program (only with 2-channel version)



Info

The time switch has 50 memory spaces.

Example

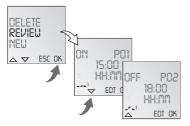
ON command for channel 2 at 3 pm. OFF command at 6 pm.

- Select NEW program and confirm with **OK**.
 Select WEEKLY and confirm with **OK**.
 The free memory spaces
- confirm with **OK**.

 The free memory spaces are briefly displayed.

 Select day block or
 - individual day (block formation as desired) and confirm with OK. Enter hour for ON command (+/-) and confirm with OK. Enter minute for ON command (+/-) and confirm with OK
- Enter hour for OFF command (+/-) and confirm with OK.
 Enter minute for OFF command (+/-) and confirm with OK.
 - Program is saved.
- Program jumps to selection REVIEW, NEW, DELETE. Now additional programs can be created

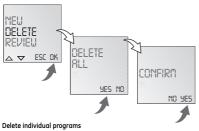
View, edit program



Info

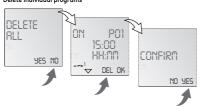
- · The program steps can be scrolled through
 - with ▼ ▲.
- · The respective program can be edited by pressing EDT. The procedure is the same as when creating a new program.

Delete all programs



Info

 It is possible to delete all programs with YES By pressing NO, individual programs can be deleted.

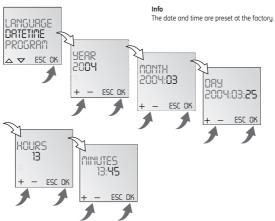


Info

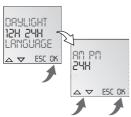
When deleting individual programs, all associated program steps are deleted (e.g. P01 ON and P02 OFF).



Set date and time

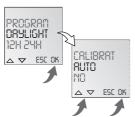


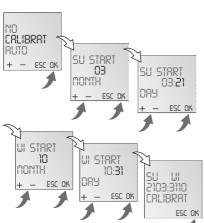
Set AM/PM (12-hour-) or 24-hour display





Switchover for summer/winter time





Info

The following settings are possible:

AUTO

Factory presetting of the published calendar dates. This is automatically recalculated for each year.

NO

No switchover

CALIBRAT

Programming. The start date of the summer time and winter time must be entered for this purpose. The factory presetting is overwritten

The programmed summer/ winter time is automatically recalculated for each year.
The changeover takes place on the same specified day of the week in the same week of each month.

Example

03/21 Start summer time 10/31 Start winter time



Operating mode



Info

Left-hand button = Channel 1
Right-hand button = Channel 2 (only with 2-channel version)

Press 1 x = FIX ON = continuous ON Press 2 x = FIX OFF = continuous OFF

Press 3 x = return to Auto mode

FIX OFF: FIX

(no display) programmed switching times



Technical Data

Dimensions H x W x D Weight g (approx.) Supply voltage

Power consumption Switching capacity

(VDE, IEC)
- inductive load

cos φ 0.6 - Incandescent lamp load

Switching output Switch contacts $45 \times 35 \times 60 \text{ mm}$

170 see imprint on device 5 VA

16 A/250 VAC

8 A/250 VAC

1,000 W potential-free 1 or 2 changeover

contact(s)

Ambient temperature

-13°F to 131°F (25°C to +55°C)

Protection class II

Accuracy typ. ±2.5 s/day at 68°F (20°C)

Reserve power 3 years from factory at +20°C (20°C)

Shortest switching time 1 min. Memoru spaces 50

Block formation of day of the week fixed/free selection

Switching status

display yes Sealable yes