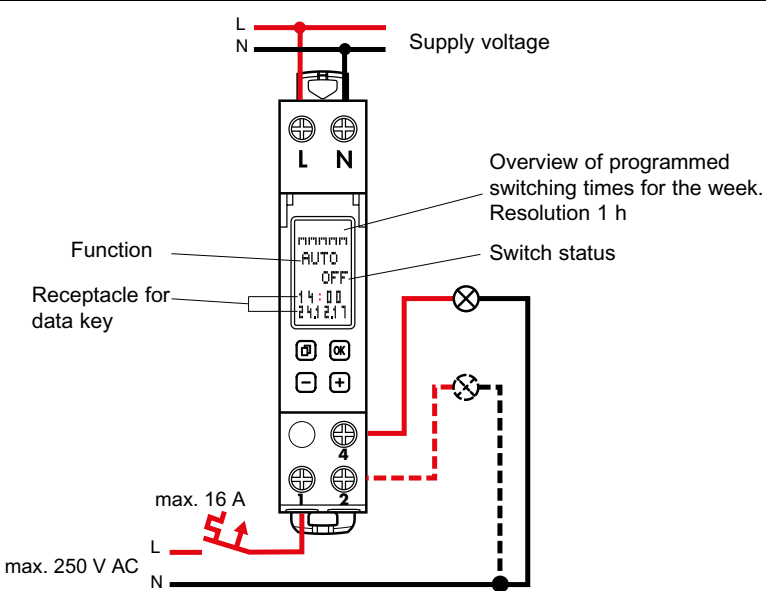


PDSU11AN

05104707

Safety notes

This product should be installed in line with installation rules, preferably by a qualified electrician. Incorrect installation and use can lead to risk of electric shock or fire. Before carrying out the installation read the instructions and take account of the product's specific mounting location. Do not open up, dismantle, alter or modify the device except where specifically required to do so by the instructions. All products must be opened and repaired exclusively by personnel trained and approved. Any unauthorised opening or repair completely cancels all liabilities and the rights to replacement and guarantees. Use only original accessories. The device contains a LiMnO₂ primary cell. When the product reaches the end of its life, this cell must be correctly removed and disposed of in accordance with national legislation and the requirements of environmental protection.



- Select menu, back to main menu, Hold down > 1s = operating display
- Confirm selection or load parameters
- Select menu options or set parameters

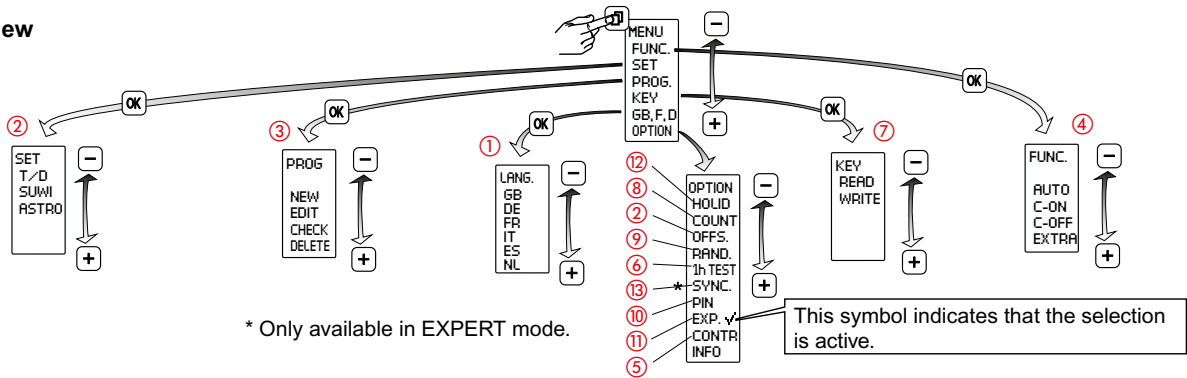
Operating principle: Typ 1.B. S. T.
IEC/EN 60730-1, IEC/EN 60730-2-7
Operation in a normal environment
Montage: in distribution panel, Degree of contamination: 2
Switch output, potential-free
Rated impulse voltage: 4 kV

General information

- Start-up:** after applying the supply voltage, the time switch starts automatically with the last selected function. The relay position is set by the current program.
- Battery backup**
 - Data key READ/WRITE only via the menu

4000 W	2000 VA	600 W 70µF	2000 W
1800 W	2000 W	2000 W	1000 W

Overview

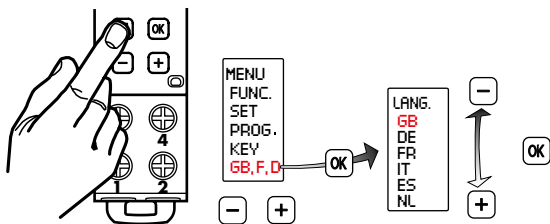


Technical data

Supply voltage:	230 V 50/60 Hz
Effective power consumption:	0,7 W
Contact rating:	1 changeover contact 16 A 250 V~µ cos φ = 1
Parallel compensation:	600 W max. 70 µF
Accuracy:	~ 0,1 s / day
Terminal capacity:	single strand 1,5...4 mm ² multi strand 1,5...2,5 mm ²
Programmes :	28
Battery reserve:	5 years
Storage ambient:	-20 °C to +60 °C
Working ambient:	-20 °C to +55 °C



1 Set language

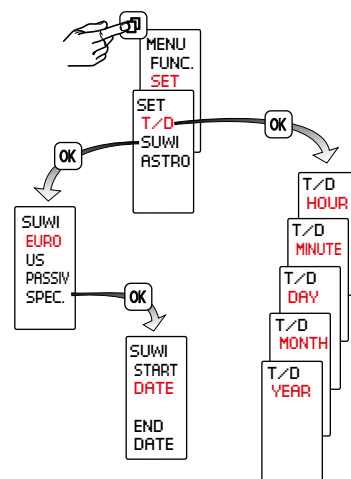


2 Set time/date, summertime

Summertime: ± 1 hour

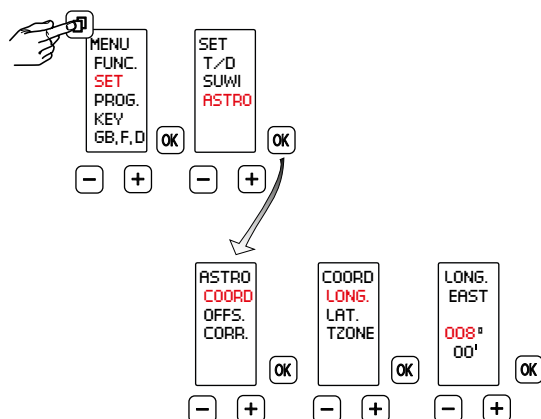
Europe: Factory set

SPECIAL: The switchover to/from summertime can be freely programmed by entering a start date and end date and is then executed each year on the same day of the week, e.g. Sunday



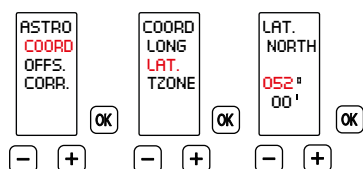
2 Setting LONGITUDE and LATITUDE

You can adjust the coordinates more precisely with LONGITUDE and LATITUDE. Factory setting: 8°E 52°N



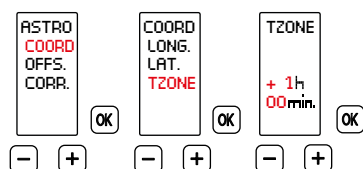
The MINUS key is used to adjust the westward longitude value in the range from 000°**EAST/WEST** to 180°**WEST**.

The PLUS key is used to adjust the eastward longitude value in the range from 000°**EAST/WEST** to 180°**EAST**.



The PLUS key is used to adjust the northward latitude value in the range from 00°**NORTH/SOUTH** to 90°**NORTH**.

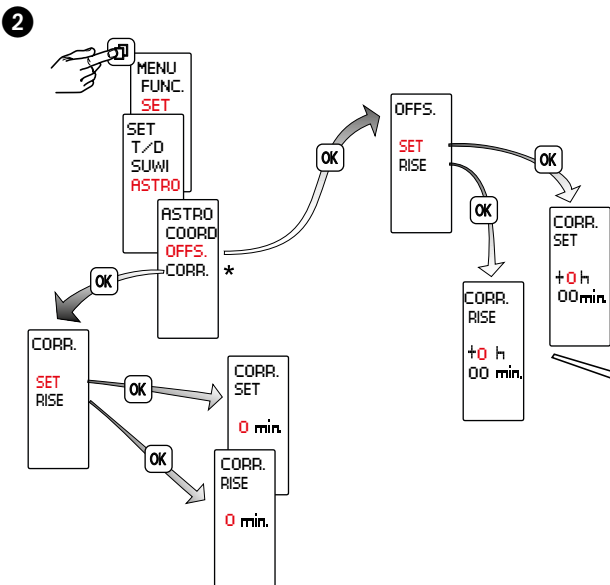
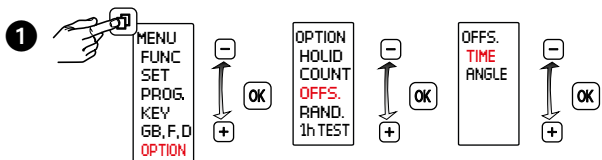
The MINUS key is used to adjust the southward latitude value in the range from 00°**NORTH/SOUTH** to 90°**SOUTH**.



Use the enclosed **time-zone map** to set the correct time zone.

From this map, determine the difference between local time and UTC (**Universal Time Coordinated**) and set this value.

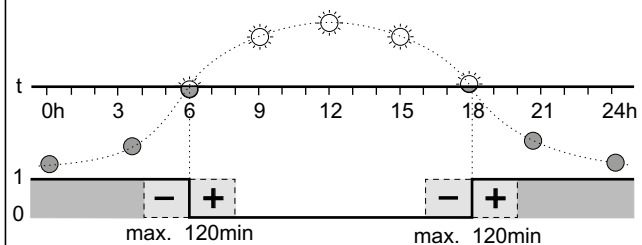
D Offset



* This function is available in Expert mode.

Setting the correction value (1...30 min.) extends the daily ON period in the middle of the winter season by up to 60 minutes (OFF up to 30 min. later in the morning, ON up to 30 min. earlier in the evening).

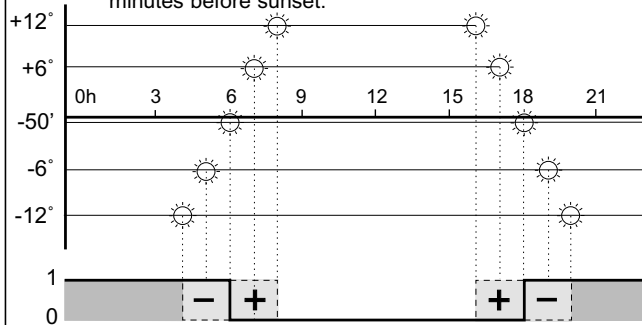
In the middle of the summer season, the correction setting reduces the daily ON period by up to 60 minutes (OFF up to 30 min. earlier in the morning, ON up to 30 min. later in the evening).



The time switch switches on at the calculated sunset time and off at the calculated sunrise time.

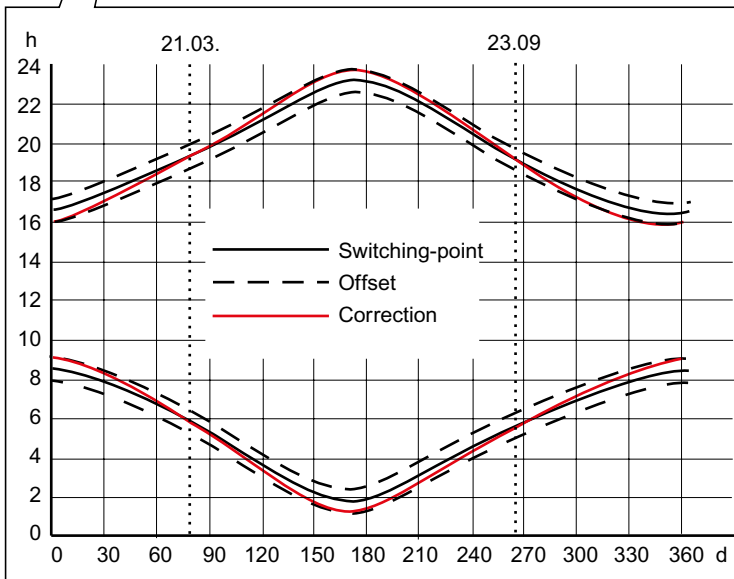
By setting an offset, you can shift the switching times by up to ± 120 minutes with respect to the calculated sunrise and sunset times.

Example: If you set the offset to +30 minutes, the time switch will switch 30 minutes after sunrise and 30 minutes after sunset. If you set the offset to -30 minutes, the time switch will switch 30 minutes before sunrise and 30 minutes before sunset.



If the offset setting is in degrees the time switch switches on and off at times of equal brightness, despite the differences in twilight time lengths over the course of the year.

Sunrise and sunset correspond to $-50'$ for the centre of the sun (the edge of the sun is visible on the horizon).



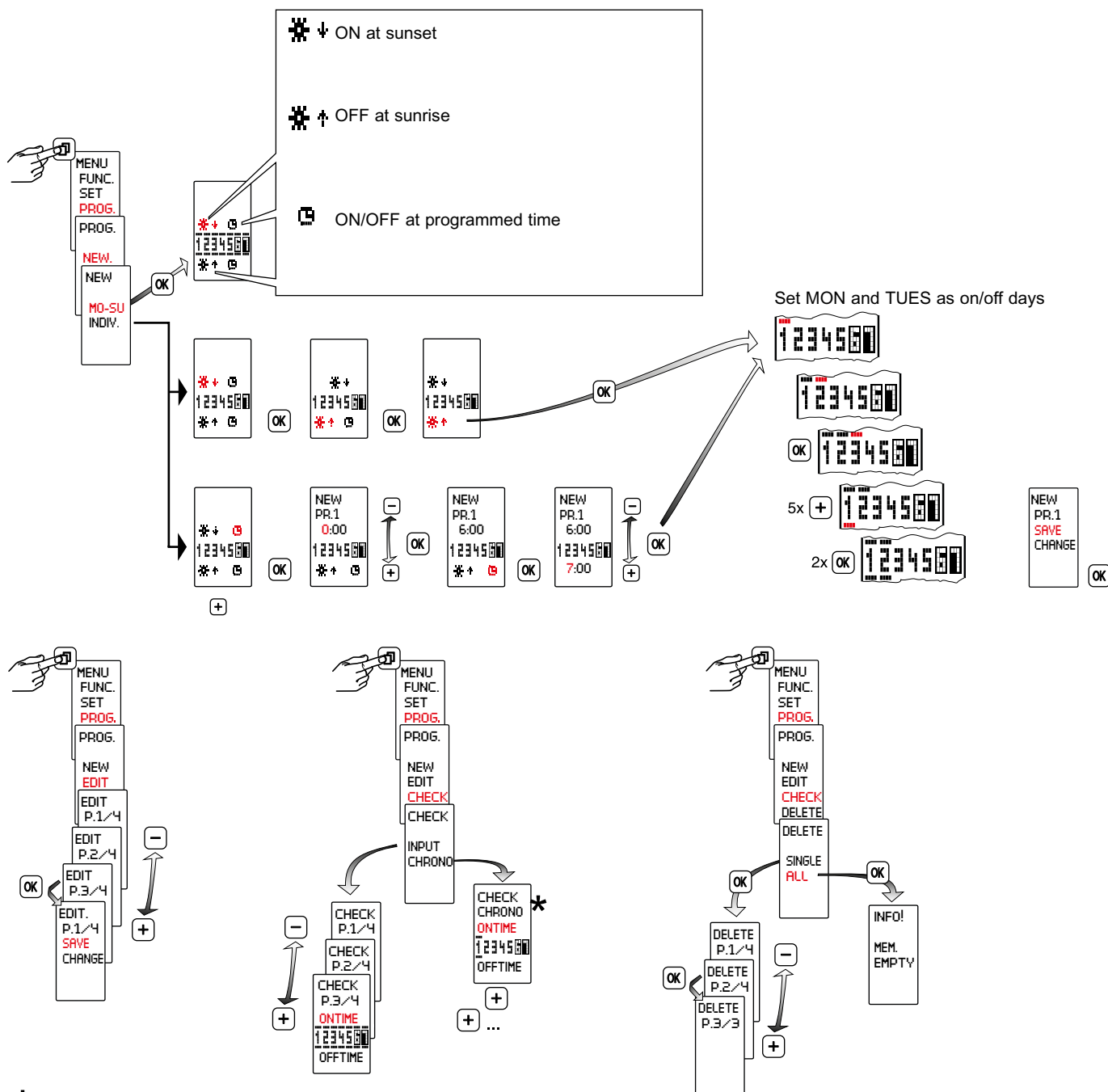
3 Programming

A program consists of an ON time, an OFF time and the associated ON and OFF days.

If you select „MON TO SUN“ (Monday to Sunday), the days are already assigned and you only need to set the ON and OFF times.

If you select „INDIVIDUAL“, you can assign the ON and OFF times to any desired days.

The programs are linked to one another by logical OR.

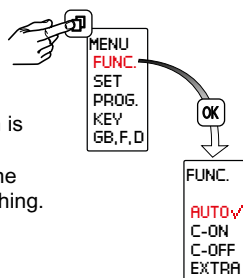


* CHRONO = the switching times are indicated in chronological order during the week.
INPUTS = programs are indicated in the order in which they are entered.

4 Modes

- Auto - Automatic operation
- Constant ON
- Constant OFF
- Extra

The switch status imposed by the program is inverted (manual override).
With the next effective switch command, the time switch resumes control of on/off switching.



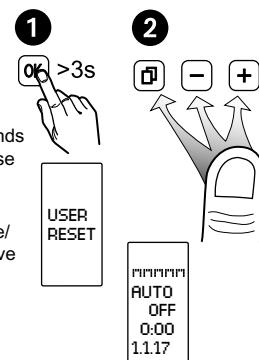
Reset

Warning!

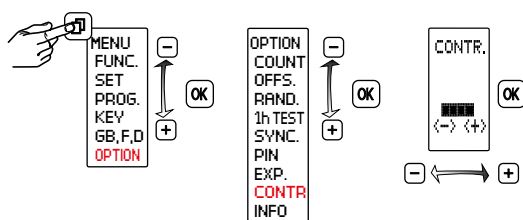
The memory will be cleared, and all set data will be lost.

Hold down **OK** for more than 3 seconds and at the same time press and release **☐** **-** **+**.

The language, time, date, summertime/ wintertime and switching times will have to be re-entered.

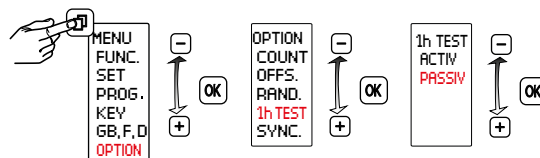


5 Contrast adjustment



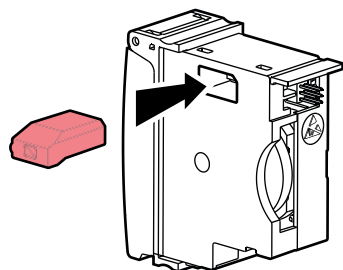
6 1 h-Test

When this function is activated, the outputs are switched on for one hour.



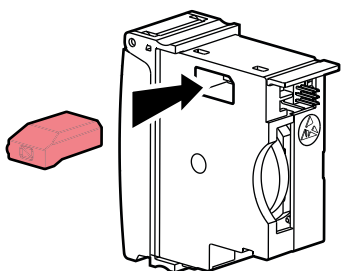
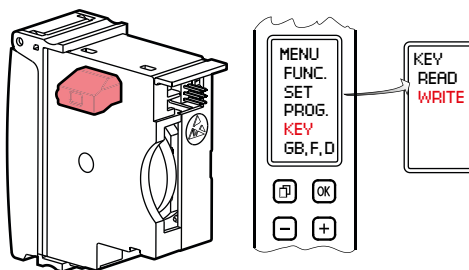
After one hour, the time switch returns automatically to the programmed mode.

7 Data key



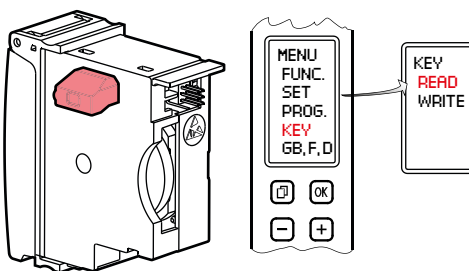
Load the programs of the time switch on to a data key (WRITE KEY)

Warning! all programs already existing on the data key will be overwritten.



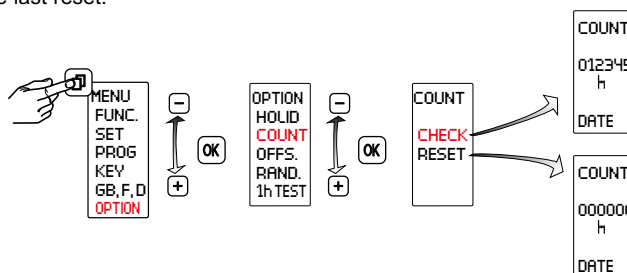
Load the programs from the data key to the time switch (READ KEY)

Warning! all programs already programmed in the time switch will be overwritten.



8 Hour counter

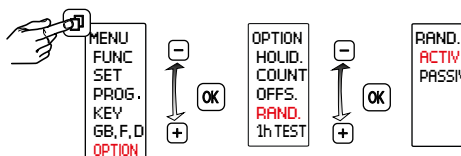
Displays the total relay ON time, from 0 to 65535 h, and the date of the last reset.



9 Random function

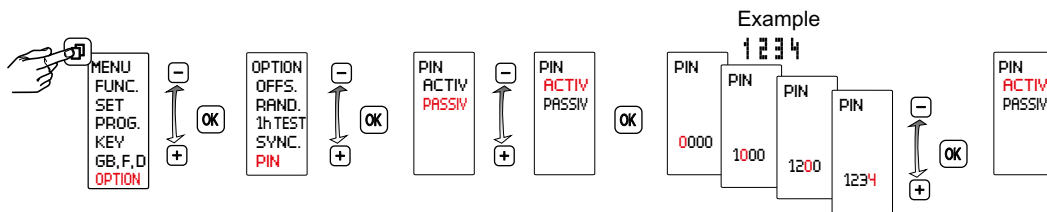
Function to simulate presence.

Function active: the programmed switching cycles are shifted at random within the range of ± 15 minutes.



10 Pincode

PIN CODE active: The time switch will not operate unless the PIN CODE has been entered. When the pin code is active, access to the button and key functions is disabled 1 minute after the last button press. Access can be re-enabled by selecting PASSIVE or by resetting the device.

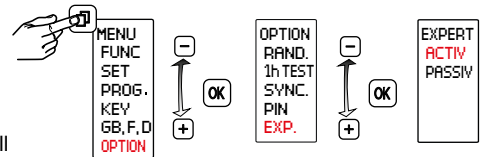


11 Expert mode

Some additional functions are available in Expert mode:

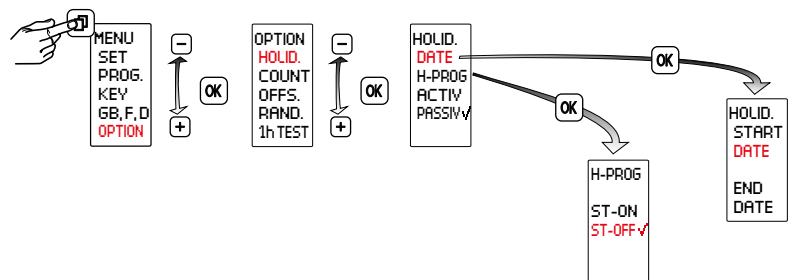
- Power grid synchronisation to improve the accuracy

Note: Upon switching from ACTIVE to PASSIVE the additional menu items are hidden again and all the Expert mode settings are cancelled. After re-activating, Expert mode will operate again with the basic settings.



12 Holidays

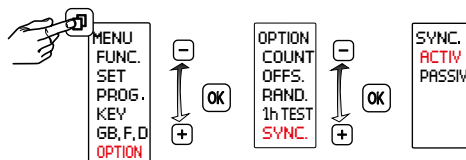
After activation the holiday program is executed between 0:00h on the start date and 24:00h on the end date (Constant ON/OFF). After the holiday program has run once, it must be reactivated.



13 Activating and deactivating grid synchronisation

Only available in EXPERT mode.

The default setting is PASSIVE. In order to improve the long-term accuracy, it is advisable to activate synchronisation if the time switch is supplied from a on 50/60 Hz grid with frequency adjustment.



- Zeitzonenkarte

• Carte des fuseaux horaires

• Time-of-day map

• Tijdszone kaart

• Carta dei fusi allegata

• Carta de husos horarios

• Time-of-day oversigt

• Aikavyöhykekarttaa

• Tidssonenkortet

• Tidzons kartan

• Carta de fusos horários

• ἡώρα υἰαῖαΟυμ αὐώήξημυ

• Ajavöändite kaart

• Laika zonu karte

• Laiko juostų žemėlapis

• Mapa stref czasowych

• Mapas ss časovými pásmami

• Karta časovnih pasov

• Mapa časovných pásem

• Időzóna térkép

• Zaman dilimleri kartı

• 时区图

• خريطة مناطق التوقيت

