

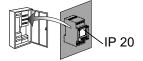
#### Safety notes

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 Legrand products must be opened and repaired exclusively by personnel trained and approved by Legrand. Any unauthorised opening or repair completely cancels all liabilities and the rights to replacement and guarantees. Use only Legrand brand accessories.

The device contains a LiMnO<sub>o</sub> 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.

### **Technical data**

Supply voltage:	230 V 50/60 Hz			
Power consumption:	ca. 1,5 W			
Relay outputs:	2 changeover contacts 16A 250V $\sim$ $\mu$ cos $\phi$ = 1			
Accuracy:	~ 0,1 s /day			
	single-strand	multi-strand		~
Wire cross-sections:	1,54 mm <sup>2</sup>	1,52,5 mm <sup>2</sup>		max. 1,4 Nm
Programs:	56 programs			
Local coordinates:	Resolution 1°/ 1' in EXPERT-Mode			
Battery reserve:	5 years			
Storage temperature:	- 20 °C to +60 °C			
Operating temperature:	-20 °C to +55 °C			
Transmission frequency:	2400 MHz 2483,5	5 MHz		
max. transmission power:	1,58 mW			



#### **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.
- For saftety, when the time switch is connected to the mains supply the contact should not be used on an isolated low voltage supply and when the time switch is connected to the isolated voltage supply the contact should not be used on the mains supply.

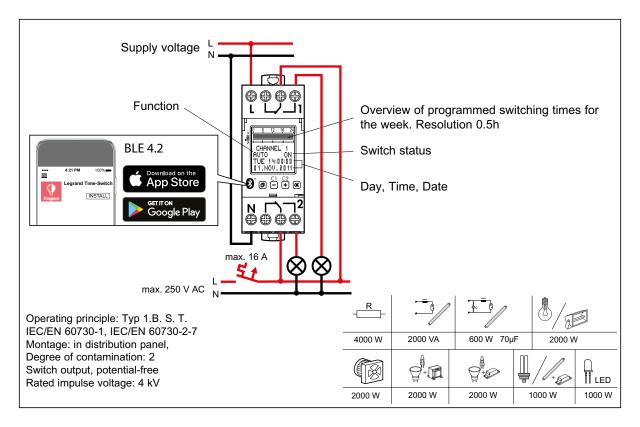
Select menu, back to main menu, Hold down > 1s = operating display

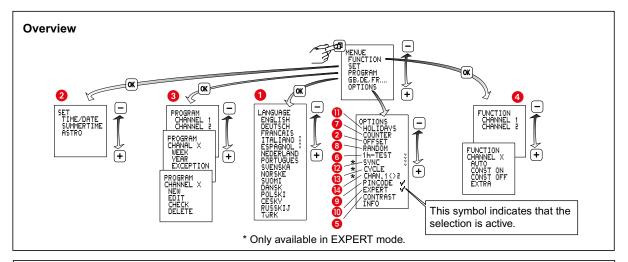
Confirm selection or load parameters

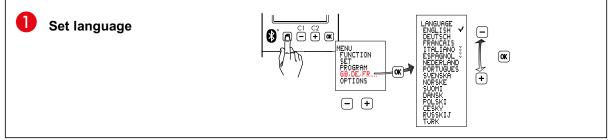
OK

C1 C2 • Select menu options or set parameters

(-) (+) • Channel selection



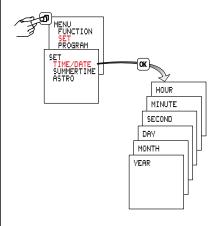








### Set time/date



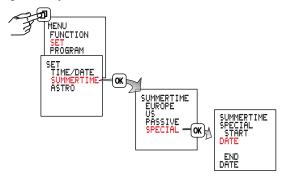
## (B)

### B) Summertime

Summertime: ± 1 hour Europe: Factory set

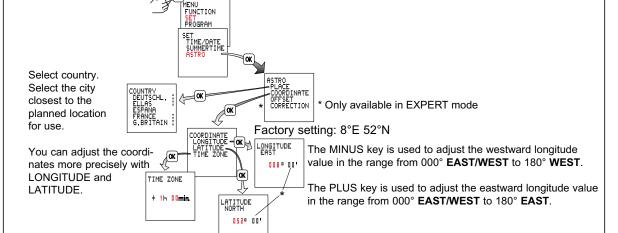
**SPECIAL:** The switchover to/from summertime can be freely programmed by entering a start date and end date and is then executed each year on the same day of the week,

e.g. Sunday





#### Astro



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

From this map, determine the difference between local time and UTC (**U**niversal **Time C**oordinated) and set this value.

The PLUS key is used to adjust the northward latitude value in the range from

00° NORTH/SOUTH to 90° NORTH.

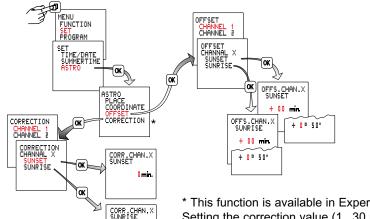
The MINUS key is used to adjust the southward latitude value in the range from 00° **NORTH/SOUTH** to 90° **SOUTH**.







### Offset

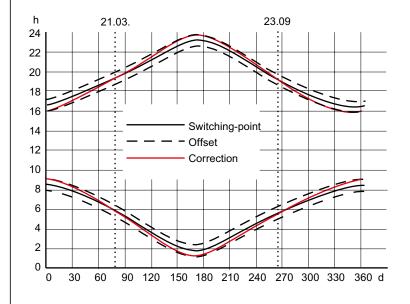


\* This function is available in Expert mode.

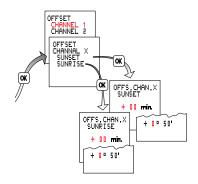
Setting the correction value (1...30 min.) extends the daily ON period in the middle of the winter season by up to 60 minutes (OFF up to 30 min. later in the morning, ON up to 30 min. earlier in the evening).

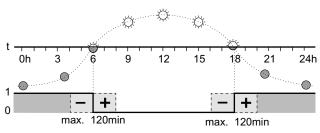
In the middle of the summer season, the correction setting reduces the daily ON period by up to 60 minutes (OFF up to 30 min. earlier in the morning, ON up to 30 min. later in the evening).





### 2 Offset



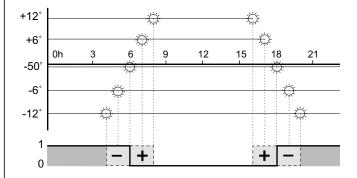


The time switch switches on at the calculated sunset time and off at the calculated sunrise time.

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

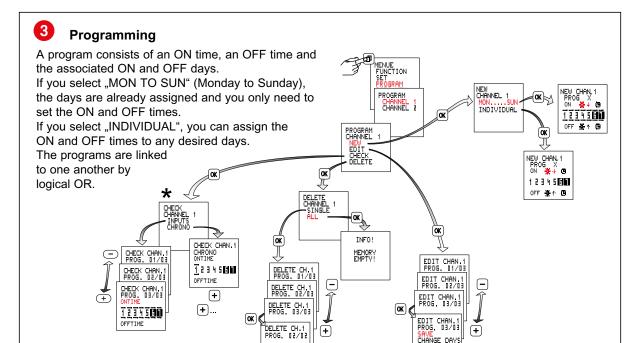
**Example:** If you set the offset to +30 minutes, the time switch will switch 30 minutes after sunrise and 30 minutes after sunset. If you set the offset to -30 minutes, the time switch will switch 30 minutes before sunrise and 30 minutes before sunset.





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).

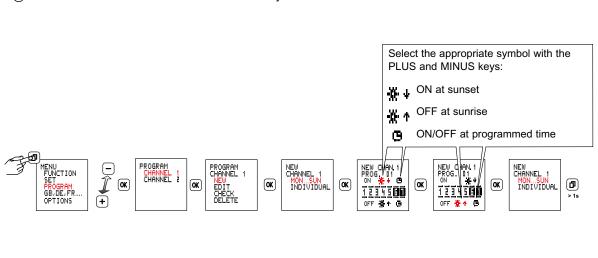


CHRONO = All switch commands are executed in chronological order in a week INPUT = Programs are executed in the order in which they are entered



### **Programming examples**

① The timer is to switch on at sunset on each day of the week and switch off at sunrise.



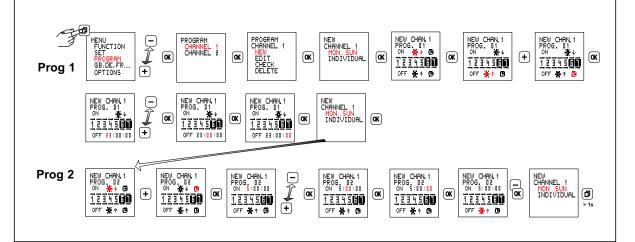
# 3 Programming

### **Programming examples**

② The timer is to switch on at sunset on each day of the week and switch off at sunrise. In addition, it is to be switched off each night between 23:00h and 5:00h. This requires the use of two programs.

Program 1: ON at sunset and OFF at 23:00h

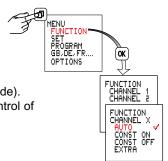
Program 2: ON at 5:00h and OFF at sunrise.



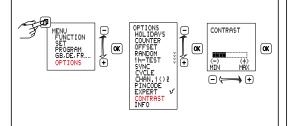


- Auto Automatic operation
- Constant ON
- Constant OFF
- Extra

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.



# 6 Contrast adjustment



# 6 1 h-Test

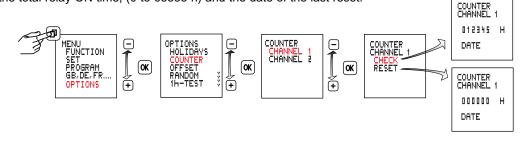
When this function is activated, the output is switched on for one hour.



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



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



# 8 Random function

Function to simulate presence.

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





The factory setting for pin code entry is PASSIVE. If the pin code is set to ACTIVE, the access code is preset to 123123. This is unless the pin code was changed in the Legrand Time-Switch app.

- The Legrand Time-Switch app can be used to change the access code.
- A maximum of 8 smartphones/tablets can be simultaneously paired with a timer.
  If more smartphones/tablets need to be paired, the oldest pairing will be deleted.
- The standard time switch name (AlphaRex) can be changed using the Legrand Time-Switch app. If PASSIVE is selected, or after a reset, the access lock is removed.

The access code set remains unchanged.



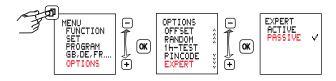


### **Expert mode**

Some additional functions are available in Expert mode:

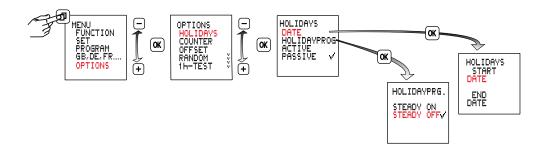
- Power grid synchronisation to improve the accuracy
- Cycle function
- Summer / winter seasonal correction
- · Automatic channel switching

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.





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.





# 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.

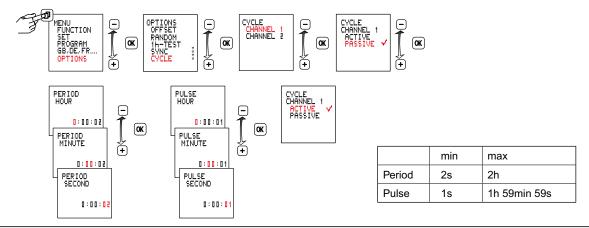


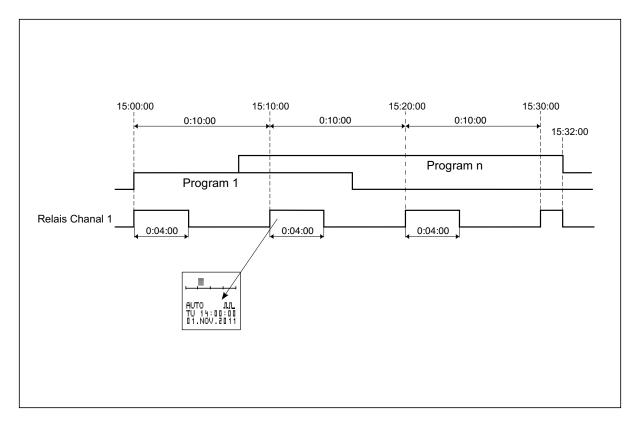


### **Cycle function**

Only available in EXPERT mode

For cyclical switch commands the switching on time is set by logical "OR" of programs of all types. A fixed cycle of ON and OFF time then operates within those limits. The cycle always starts with the ON time. The cycle duration and the ON time within the cycle are the same length for all switching times. The cycle duration and the ON time can be set independently in one-second increments. If the switching time is shorter than the cycle duration, the cycle will be shortened accordingly. The ON time will remain unchanged. If the switching time is actually shorter than the ON time, the ON time will be shortened accordingly.







### **Automatic channel switching**

Only available in EXPERT mode

On two-channel time switches a cyclic switch between channels can be set to conserve and/or ensure even use of connected equipment such as lamps and lights.

For example, with two sets of lights, one can be used all night long and the other for part of the night only. However, cyclical inversion of the outputs ensures that the lamps are on for the same length of time on average.

The outputs are automatically swapped over once a day (12 noon) or once a week (Sunday at 12 noon).





### Connecting smartphones and AlphaRex<sup>3</sup> BLE

Below are the basic instructions for pairing a smartphone with an AlphaRex<sup>3</sup> BLE timer.

- 1. First install the Legrand Time-Switch app.
- 2. Go to the Bluetooth section of your smartphone; this is usually under Settings. Make sure Bluetooth is switched on.
- 3. Location services on the smartphone must be enabled; GPS does not have to be activated.
- 4. The AlphaRex<sup>3</sup> BLE timer must be supplied with mains voltage.
- 5. Devices are now displayed within the Legrand Time-Switch app, both when uploading and when importing.
- 6. Select the AlphaRex<sup>3</sup> BLE timer from the list of devices.
- 7. The access code is 123123.
- 8. Enter the access code.
- 9. The AlphaRex<sup>3</sup> BLE is now paired.



### Importing projects



### ⚠ Note!

At the start of and during Bluetooth communication, the relay outputs are put into an idle state.

- Select the AlphaRex<sup>3</sup> model from which the project is to be imported.
- The transfer will start automatically









### **Uploading projects**



### ⚠ Note!

At the start of and during Bluetooth communication, the relay outputs are put into an idle state.

- 1. Select a project.
- 2. Press
- 3. Select the AlphaRex³ model to which the project is to be transferred.
- 4. The transfer will start automatically.







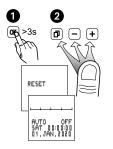
#### Reset

### Warning!

The memory is deleted and all saved data is lost. Pin code entry is set to PASSIVE. The access code set remains unchanged.

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

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



Warning: Elektrical shock - Disconnect all power from the device before dismantling the module and replacing the battery.

Always use a Li cell type battery (LiMnO<sub>2</sub>) CR2477, 3V high temperature type min +85 °C

