

ENGLISH Contents

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INFORMATION AND SAFETY PRECAUTIONS

- It is advisable to read the installation and user instructions carefully and to keep them for future reference.
 - The manufacturer reserves the right to make all the technical and construction changes it deems necessary without prior notice.
 - **Important: the installation, electrical connection and commissioning of devices and equipment must be performed by qualified personnel and in compliance with regulations and applicable laws.**
 - Do not connect or power the unit if any part is visibly damaged.
 - Once installation is complete, inaccessibility to the terminals without the use of special tools must be guaranteed.
 - The manufacturer assumes no responsibility concerning the use of products that must comply with specific environmental and/or installation regulations.
 - This unit must be intended only for the use for which it was built.
- Any other use must be considered improper and dangerous.

IMPORTANT! The instructions are unique for both models. The 2-channel model is represented in the images below: certain parameters or symbols on the display will not be present when programming the 1-channel model.



DISPOSING OF OLD ELECTRICAL AND ELECTRONIC EQUIPMENT

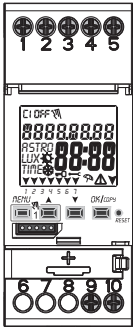
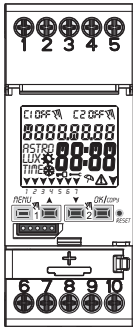
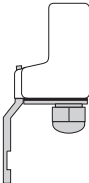
This symbol on the product or on its packaging indicates that this product cannot be treated as household waste. On the contrary, it must be taken to a specific collection centre for recycling electrical and electronic equipment, such as: - outlets, if a similar product to the one being disposed of is being purchased - local collection centres (waste collection centres, local recycling centres, etc.). By making sure the product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inadequate disposal of this product. Recycling materials will help conserve natural resources. For more detailed information about recycling this product, please contact the local office in your area, the household waste disposal service in your area or the shop where you purchased this product.

1 - Description of the unit

The ASTRO-LUX-TIME weekly digital switches with 1 or 2 relay outputs (mono or dual-channel) are equipped with a backlit display and programming is easy and intuitive thanks to the browsing by Menu.

They are the ultimate solution to managing loads based on time or brightness and/or their combinations; they consist of an ASTRONOMICAL TIME SWITCH, a TWILIGHT SWITCH and a TIME SWITCH in a single device.

Ideally used in domestic buildings, industrial buildings, schools, offices, public areas, etc.; they also have a special Slot to insert the EMD (External Memory Device) that allows one or more programs to be read/saved/copied/run on different ASTRO/LUX/TIME digital switches of the same model.

DEVICES 2 DIN modules	ACCESSORIES: (supplied separately)
 1-channel mod.  2-channel mod.	 External cadmium-free twilight sensor  «EMD» External memory device

1.1) Functional characteristics and special features of the device

- Device dimensions (LxDxH): 35 x 60 x 90 (2 DIN modules)
- Device with daily/weekly programming, guided by menus with the guidelines read on the white backlit display.
- Models with one or two relay control outputs.
- Smart relay piloting that "zero crossing" increases the load values and the duration of the relay as well as the connected load.
- Slot for external memory device to run, load Astro, lux, time programs and download/upload the holiday programs alone.
- Twilight sensor connection input.
- Calendar: year - month - day - hour and minutes.
- Date/time setting with automatic winter/summer time change.
- Multilingual menu: Italian - English - German - French - Spanish.
- Memory capacity: 45 ON/OFF programs that are free to be set.
- Minimum ON/OFF 1-minute time scheduling to a maximum of 1 week less 1 minute.
- Types of programs: Astronomical (ASTRO), Twilight (LUX), Timer (TIME), Holiday (suspension of programs for a preset period of time).
- Twilight operation 0.....1000 LUX.
- Possibility of entering 1 or more «Holiday programs», (suspension of Astro - Lux - Time programs - twilight override in progress) from a minimum of 1 day to a maximum of 12 months.
- Permanent memory for saving programs.
- Possibility of deleting the selected program rapidly.
- Program/s deletion menu.
- Possibility of permanent or temporary manual override (ON/OFF).
- Possibility of twilight override (Total / Partial).
- Scheduled maintenance of the connected loads.
- Hour counter function to monitor the operating hours of the load.
- Warranty menu: view the elapsed time from when the product was connected.
- White backlit display.
- Managing the backlighting of the display: timed at 6 seconds / Fixed ON / Fixed OFF.
- Ecological LITHIUM battery, which can be replaced without removing the device from its seat.
- Charge reserve guaranteed by the lithium battery (replaceable) is about 6 years.
- Key lock.
- Hinged and sealable cover.

Note: a back panel with optional accessories can be installed for all items.

1.2) FIRST BATTERY INSERTION

Open the battery door to the left ① and insert the battery into its housing with the **positive side facing up** ②.
Close the battery compartment door properly to the right ③.
Connect and activate the 230V power mains (see paragraph 1.4).
Set the required data as described in Chapter 2 - FIRST START-UP.

If the 230V ~ power mains is disconnected, the current date and time are kept updated by the backup battery (replaceable) with a power reserve of approximately 6 years.
The language, programs and all previously entered settings are saved in a permanent memory.

1.2.1) LOW BATTERY SIGNAL

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When the battery reaches a minimum threshold level and there is a power cut, the display will show **bAtteRy** and the symbol ⚠.

1.2.2) REPLACING THE FLAT BATTERY

• Disconnect the 230V mains.

*Note: the display shows **bAtteRy** and the symbol ⚠.*

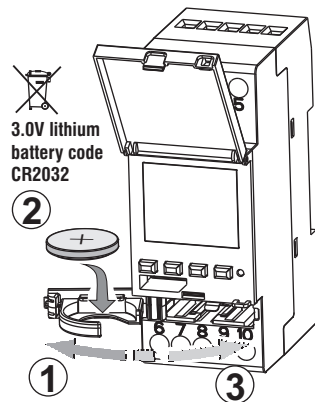
• Open the battery door to the left ① and insert the battery into its housing with the positive side facing up ②.
Close the battery compartment door properly to the right ③.

• Re-connect the 230V mains.

Note: the device will save all the previously set data in memory (with the exception of manual and twilight overrides).

The device displays the screen to select the language.

Press the OK button repeatedly to confirm all the settings saved in the memory until the normal operation main screen appears (display of the status of the channel/s, current date and time).



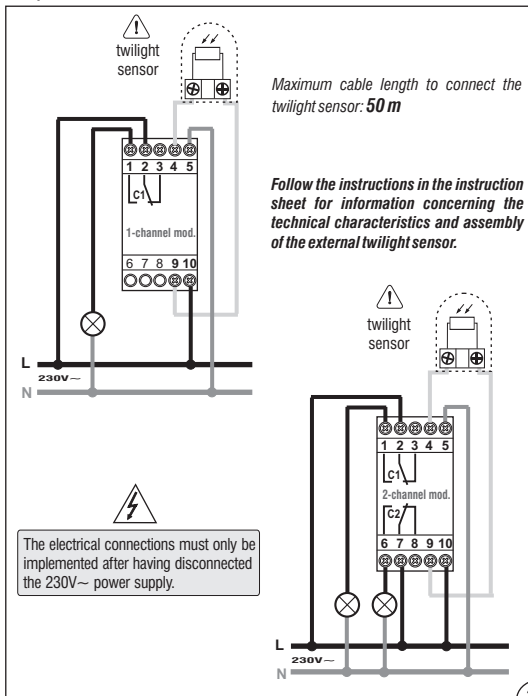
1.3) Technical specifications

Supply voltage	230 V c.a. +/- 10%
Frequency	50 Hz
Protection rating	IP20
Output type	Potential-free changeover contact relay; N.O. contact = 16(10)A / 250V~ Zero Crossing N.C. contact = 16(2)A / 250V~
Type of action, disconnection and unit	1 B S U / electronic
Section of the cables to the terminals	1...6 mm ²
Replaceable backup battery	3V lithium code CR2032
Power reserve in case of power failure	about 6 years from the first start-up, guaranteed by the lithium battery (replaceable)
Rated impulse voltage	4kV
Software	A class
Operating accuracy	+/- 1 sec/day at 25 °C
Consumption/Stand-by consumption	8 VA mono-channel / 6 VA dual-channel
Type of insulation	II class
Rate of pollution	normal
Installation	DIN bar - back panel (with optional kit)
Operating temperature	from -20 °C to +55 °C
Storage temperature	from -30 °C to +60 °C
CE marking regulation	LVD/EMC EN60730-2-7
Languages available in the device	Italian, English, German, French, Spanish

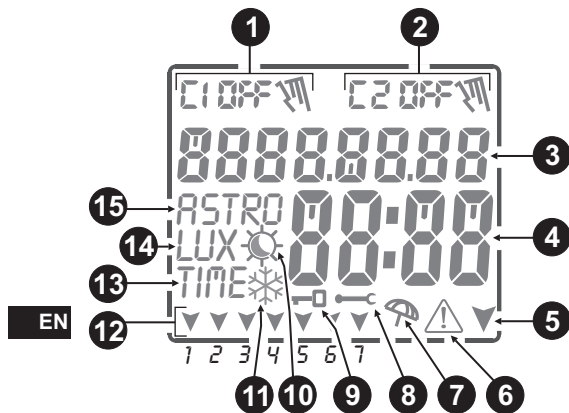
Maximum controllable power

				
3000W	3000W	1100W	900W (125 µF)	7W ÷ 23W (max. 23 lamp.)

1.4) Electrical connections

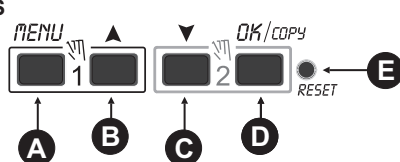


1.5) DISPLAY



- 1** Channel 1 Field (status of relay 1)
- 2** Channel 2 Field (status of relay 2) *only dual-channel mod.*
- 3** Date / Text indication to browse or program
- 4** Hour and Minutes / Menu functions / Parameter values indication
- 5** Browsing arrow (menu or next sub-menu)
- 6** **ATTENTION!** icon
- 7** **Holiday** icon (suspension of programs in progress)
- 8** Icon for the set **Maintenance** of the connected load
- 9** "Keypad lock" icon
- 10** **Summer time period** icon ☀ (summer changeover) and/or for **Astro** 🌙 and **Lux** ☀ **programs**
- 11** **Winter time period** icon ❄ (winter changeover)
- 12** **Day of the week** field
- 13** **Time programs setting** (TIME)
- 14** **Twilight programs setting** (LUX)
- 15** **Astronomical programs setting** (ASTRO)

1.6) KEYS



- A** **Access / Exit** the menus and sub-menus
- B** Scroll list **upwards / increase the value**
- C** Scroll list **downwards / decrease the value**
- D** **Confirm setting / copy** program
- E** **Reset** (no setting entered is deleted - para. 1.6.3)

1.6.1) Specific key functions

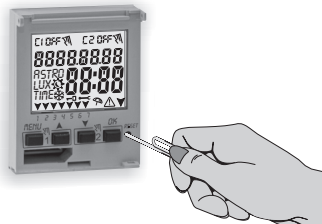
Any of the functions described below are carried out from the **main screen**

Function	Press the key combination
Lock / unlock keys ()	2 seconds
Access the « Manual » menu directly to enable/disable the temporary or permanent override (see Chapter 7).	for channel 1 for channel 2
With the ASTRO function and/or Twilight sensor activated you can view the following consecutively: - SUNSET / SUNRISE Time as at today - Current LUX reading of the sensor - return to the «Main screen»	Press the key pulse key

1.6.2) Shortcut keys

Function	Press key/s
Immediate exit from the menu or sub-menu	2 sec. until the main screen appears
in the Programs menu, access the first free program that is to be set	2 seconds
in the Programs menu, quickly deletes the selected program	press simultaneously for at least 2 seconds

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1.6.3) RESET

Reset reboots the time switch and is used in the event of unusual displays or malfunctions. Gently pressing the Reset button with a pointed object the time switch performs a lamp-test, thereby switching on all the segments of the display and then viewing the screen on which the language is selected. Implementing a Reset will lose the keypad lock and any activated manual overrides. All settings are retained: current date and time, programs, data concerning maintenance, hour counter and the warranty and activated twilight override.

Reactivate the device from the language selection screen by **pressing the OK button repeatedly** to confirm all the settings saved in the memory until the normal operation main screen appears (display of the status of the channel/s, current date and time).

IMPORTANT: when programming, the settings made with the **▲▼** keys must be confirmed by pressing the OK key, and when OKAY appears on the display for a few seconds, it indicates that the data have been entered correctly in the permanent memory. Otherwise, after 2 minutes (10 minutes for «program» and «hour counter» settings), the digital switch returns to the "Normal operation" main screen and the partial changes will not be saved.

Press the **▲** key or **▼** pulse key to increase/decrease per unit and keep pressed to increase/decrease rapidly.

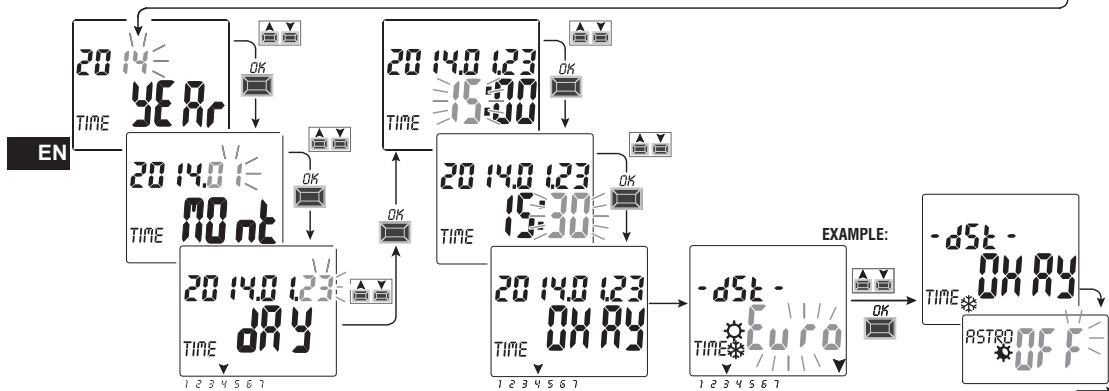
2 - FIRST START-UP (language selection, entry of current year, month, day, hour and minutes, summer/winter time setting)

The unit is supplied with default settings. After inserting the battery (see paragraph 1.2) and connecting the power supply, the unit resets the display (lamp-test) and then proceed as follows:

Select/set the data by pressing the ▲▼ keys and press the OK key to confirm and move on to the next field.

- Select the desired language.
- Set the current year, month and day.
- Set the current hour and minutes (keep the ▲ or ▼ keys pressed for the counter to advance rapidly).

The display shows **OKAY** for a few seconds and then displays the screen for the winter/summer time to be set.



Set the summer or winter time. Select whith the ▲▼ keys between **EURO - FREE** (must be programmed) - **NONE** and confirm with **OK**.

Possible selections on the display	Summer changeover +1h (☀ summer time)	Winter changeover -1h (❄ winter time)
Euro = Central Europe UTC+1 (default)	Last Sunday in March	Last Sunday in October
Fr EE	Month / Week / Day / Time freely programmable	Month / Week / Day / Time freely programmable
none	None	None

- Set the astronomical coordinates.

By setting them, you move on to enter the **ASTRO ON** astronomical coordinates (see the procedure in the next paragraph 2.1).

By confirming «**ASTRO OFF**» with **OK**, **OKAY** appears and it moves on to the next item (Enabling the twilight sensor).

If ASTRO OFF is confirmed, the astronomical coordinates can then be entered in two ways:

- when an **ASTRO** program is first entered (see paragraph 4.1.1);
- entering the **OPTION > SETUP > ASTRO/SET** menu (see paragraph 8.2).

- Set the twilight sensor (installed correctly).

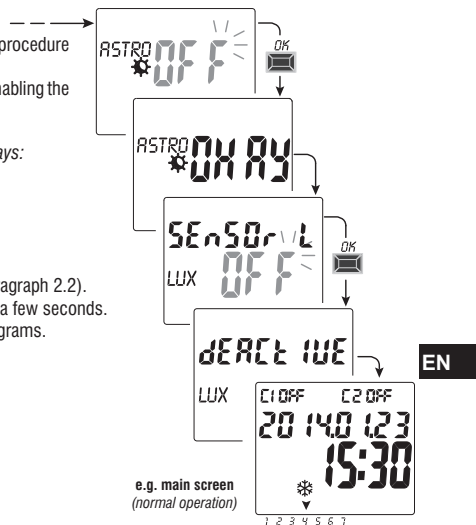
Setting **SENSOR L ON** will activate the twilight sensor connected to the device (see paragraph 2.2).

Confirming «**SENSOR L OFF**» with the **OK** key will display **Deactive (deactivated)** for a few seconds.

- The display shows the normal operation main screen: proceed to enter the desired programs.

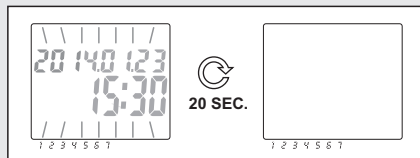
If SENSOR L OFF is confirmed, the next sensor can be activated:

- when a **LUX** program is first entered (see paragraph 4.1.2);
- when a twilight override is first set (see paragraph 4.1.2.a).



In the event of a power failure, (e.g. "black-out"), the digital switch:

- disables the relay/s;
- disables the twilight probe if connected and activated;
- switches off the backlighting, if activated;
- displays the flashing date and time for 20 seconds, then switches to **stand-by** mode (display off). While keeping all the programmed data in memory until the supply voltage is restored or by pressing a key that restarts the count for stand-by mode for 1 second.



2.1) Inserting the astronomical coordinates (ASTRO activation)

for the ASTRO programs to work properly it is important for some information to be entered (ASTRONOMICAL PARAMETERS), which allow the device to identify the geographic area where it will be installed.

- The display of the digital switch shows **ASTRO OFF**: select **ON** with the keys **▼▲**.

Confirm with **OK**.

- The astronomical coordinates are then entered.

The operation consists of entering the latitude and longitude degrees (only integers) of the place of installation of the device. These data can be obtained from any atlas, Smartphone or GPS system.

By default the unit indicates the coordinates of Milan (Italy) Lat. North 45° Lon. East 9° time zone +1

- **Latitude** = use the **▲▼** keys to enter the latitude in degrees from **-60° (Lat SOUTH)** to **64° (Lat NORTH)**.

Confirm with **OK**.

- **Longitude** = use the keys **▲▼** to enter the longitude in degrees from **-180° (Lon WEST)** to **180° (Lon EAST)**.

Confirm with **OK**.

- EN** - **Time zone** = use the **▲▼** keys to set the time zone (in ± 1 h steps): **-14:00 ÷ 14:00**;
(this parameter represents the hours that shift from the zero line of Greenwich). Confirm with **OK**.

- **OFFSET** (offset correction) = you can set the switch-on at sunset and/or switch-off at sunrise for installation requirements (e.g. if the unit is installed in the shade of obstacles: mountains, condominiums, etc.), the following intervention can be corrected by using the **▲▼** keys:

-120 minutes ÷ 120 minutes at sunrise (☀ icon) by default the value is set at 0 (zero).

-120 minutes ÷ 120 minutes at sunset (☾ icon) by default the value is set at 0 (zero).

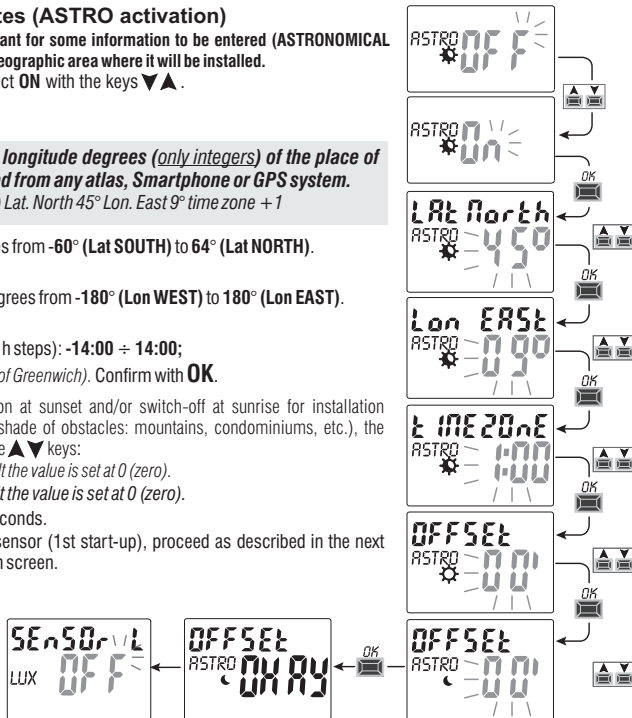
Confirm with **OK**, **OKAY** appears on the display for a few seconds.

After which it displays the screen to activate the twilight sensor (1st start-up), proceed as described in the next paragraph or press the **Menu** key to exit and display the main screen.

VIEWING SUNRISE-SUNSET TIMES (para. 1.6.1)

Press the **OK** pulse key on the main screen to verify the sunrise and sunset times as at today.

note: the displayed time considers the entered sunrise and sunset correction parameters



2.2) Enabling the twilight sensor

(this is only possible with the outdoor twilight sensor installed and connected properly to the digital device powered by 230V~ mains voltage)

- The display of the digital switch shows **SENSOR L OFF**; use the ▲▼ keys to select **SENSOR L ON**. Confirm with **OK**.

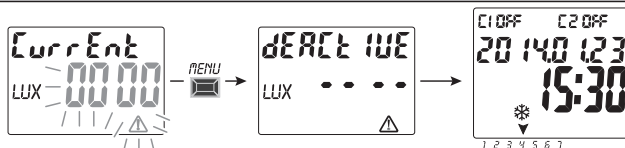
- The LUX value read in real-time by the sensor is displayed (**CURRENT**). Confirm with **OK**.

OKAY appears on the display for a few seconds after which it moves to the main screen of normal operation of the device.

i The LUX value read in real-time by the sensor can be displayed at any time (**CURRENT**). Press the **OK** pulse key on the main screen (see para. 1.6.1).

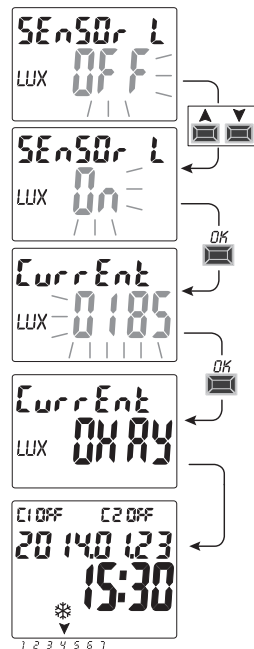
Note: if the sensor is not connected, is not working or the read **Current LUX** value is less than 5 LUX, **Current** is displayed and the LUX value (example: **0000**) flashes together with the ⚠ symbol (by pressing **OK** the sensor cannot be activated). Check the correct installation of the sensor and try activating once again.

Even in this fault condition it is possible to exit (without activating the sensor) by pressing the **MENU** key and the main normal operation screen will appear on the display.



2.2.1) Disabling the twilight sensor

Execute a **Reset** (para. 1.6.3), confirm all the previously entered settings with the **OK** key until the screen is displayed **SENSOR L**; disable it by pressing one of the keys ▲▼ **SENSOR L** and confirm with the **OK** key.



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3 - MENU AND PROGRAMMING

3.1) Menu - overview

6 menus are listed in the sequence present in the unit:

① PROG (Programs)

- Number of free programs
- Selection of no. of programs
- Selection of channel (only dual-channel) - Selection of day
- Selection of the (ASTRO or LUX or TIME) **ON** type of program (start-up) data entry according to the type of program selected
- Selection of the (ASTRO or LUX or TIME) **OFF** type of program (switch-off) data entry according to the type of program selected

② ERASE PG (Program deletion)

- Deleting a single program
- Deleting all the programs

③ HOLIDAY

- Number of free programs
- Selection of no. of programs
- Selection of channel (only dual-channel)
- Setting - **MONTH – DAY OFF**
- Setting - **MONTH – DAY ON**

④ SETUP LUX (twilight override)

- Probe activation (if not activated on the 1st start-up)
- Channel selection (dual-channel only)
- LUX threshold setting/disabling
- Selecting the type of twilight override: Total / Partial

⑤ OVERRIDE (relay override)

- Selection of channel (only dual-channel)
- **AUTO**
- **ON PERM** permanent manual
- **OFF PERM** permanent manual
- **ON TEMP** temporary manual
- **OFF TEMP** temporary manual

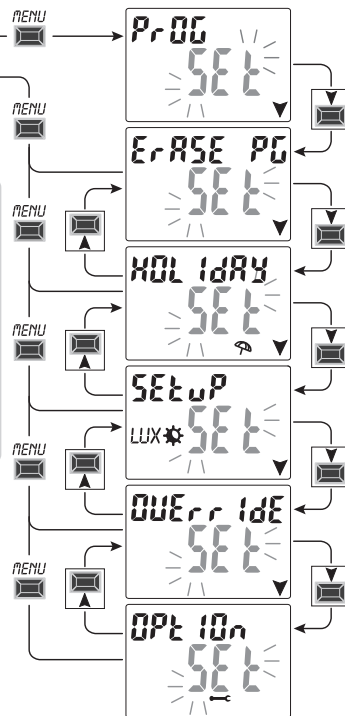
main screen



How to select the desired menu:

1. Press the **MENU** key.
The first selectable menu appears.
2. Scroll through the various menus using the keys **▲▼**.
3. Confirm the desired menu with **OK**; the sub-menus and settings are accessed.

Exit or return to the previous menu or setting by pressing the **MENU** pulse key or keep it pressed to return to the main screen.



⑥ OPTION

- Language selection
- **ASTRO** or **TIME** settings
- Maintenance
- Hour counter
- LED light (backlighting)
- Warranty
- Info
- **EMD key** (only with key inserted)

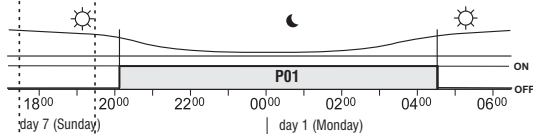
3.2) Forcing and program priority

A priority is assigned for each type of program/function as shown below on the right. The output relay/s will be activated according to the set priorities.

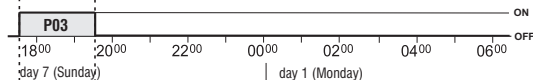
IMPORTANT: all programs (ASTRO-LUX-TIME) entered are simultaneously active regardless of their position; in the case of overlapping commands on the same output, this is activated or remains so if at least one program is commanding it (OR LOGIC).

3.3) Example of programs

P01 type of program **ASTRO** / **ASTRO**:

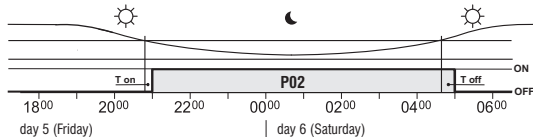


P03 type of time program **TIME** / **TIME**:



Note: programs P01 and P03 are set on the same day and are therefore simultaneously active.

P02 type of program **LUX** / **LUX**:



MAXIMUM PRIORITY

Permanent or temporary manual override

External memory “EMD”

“Holiday” programs

Twilight override

(total / partial)

ASTRO-LUX-TIME programs

(astronomical, twilight, time or combined)

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You can set the «COMBINED» programs starting with an ON type of program (example: ASTRO) and ending with OFF with another type (example: TIME).

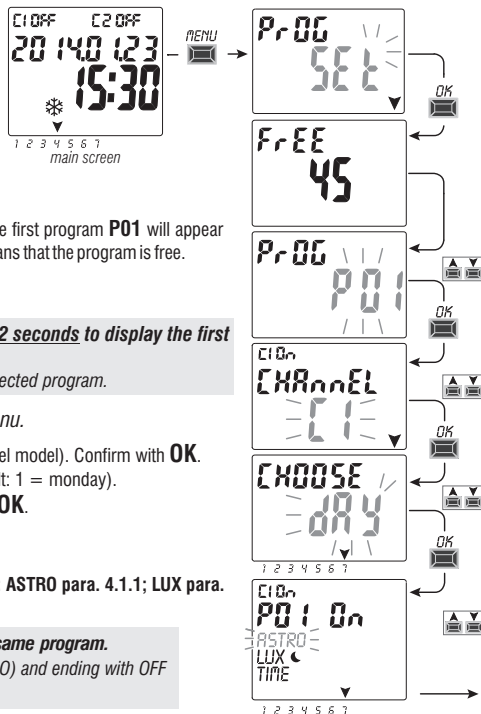
4 - «PROG» menu (Programs)

This menu allows you to **create, test, modify, copy and delete** the programs (ASTRO / LUX / TIME).

4.1) CREATING A NEW PROGRAM

- i** Procedure valid for all types of programs.
Additional settings are described in the individual programs.

1. Press the **MENU** key to access the first menu (**PROG SET**). Confirm with **OK**.
The number of free programs will be displayed for about 2 seconds, then the first program **P01** will appear flashing. If no text (ASTRO, LUX, TIME) appears on the left of the program it means that the program is free.
2. Select the desired program using the **▲▼** keys. Confirm with **OK**.



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- If there are several stored programs, **keep the ▲ key pressed for 2 seconds to display the first free program that is to be set.**
- Press the keys **▲▼** simultaneously for 2 seconds to rapidly delete the selected program.

- i** If **Holiday** programs are saved, they are not displayed in this menu.

3. Use **▲▼** keys to select channel C 1 or C 2 or both (only for the dual-channel model). Confirm with **OK**.
4. Use the **▲▼** keys to select the day when the program must start (by default: 1 = monday).
The arrow indicates the selected day (example 7 = Sunday). Confirm with **OK**.
The ASTRO ON program type is suggested by default.
5. Use the **▲▼** keys to select the **ON** program type (ASTRO or LUX or TIME)
and proceed with the settings according to the type of program selected: ASTRO para. 4.1.1; LUX para. 4.1.2; TIME para. 4.1.3.

Note: you can select different types of programs for ON and OFF in the same program.

«COMBINED programs» starting with an ON type of program (example: ASTRO) and ending with OFF with another type (example: TIME).

4.1.1) ASTRO / ASTRO program type

Useful for the management of electric utilities in relation to sunset and sunrise in the set geographical area, without external sensors.

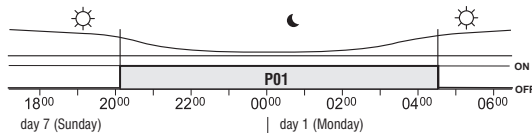
After having selected the program number, the channel (only for the dual-channel model) and the day as described in para. 4.1:

1. Select the **ON** type of program with the **keys ▼▲**.
(the **ASTRO** type is suggested by default). Confirm **ASTRO** with the **OK** key.

If the display shows **ASTRO OFF** this indicates that the astronomical coordinates have not yet been activated/set; proceed as described in paragraph 2.1 to activate them.

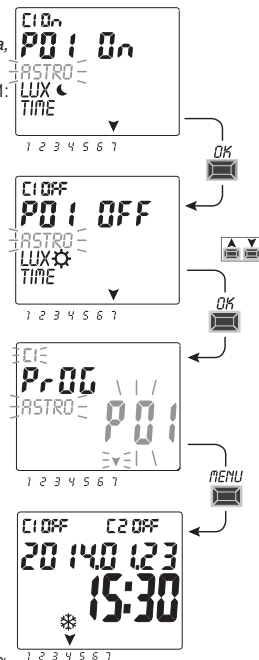
2. Select the **OFF** type of program with the **▼▲** keys. Confirm **ASTRO** with the **OK** key.
3. After entering the program, the display first shows **OKAY**, and immediately after the number of free programs left and then the last set program.
Set a new program or press the **MENU** key 2 times to exit: the display will show the main screen (normal operation).

IMPORTANT! For **Copy** a saved program on other days, see the procedure in the paragraph 4.3.



Example **P01 ASTRO/ASTRO**: type of program: sunset and sunrise interventions are computed by an astronomical algorithm based on the set coordinates and the local time.
The program begins at sunset (ASTRO ON) and ends at astronomical sunrise the next day (ASTRO OFF).

- i** The time of sunrise and sunset is calculated by considering the type of "Official" twilight and corresponds with the Zenith at 90°50'. Correspondence with the actual time of sunrise and sunset of a particular location also depends on changes in the weather, altitude and topography of the place, therefore, the calculated values must usually be corrected with the following parameters:
SUNSET TIME CORRECTION - SUNRISE TIME CORRECTION (see paragraph 2.1)



EN

4.1.2) LUX/LUX type of program (twilight)

Note: this program can be activated if the sensor is connected and activated.

After having selected the program number, the channel (only for the dual-channel model) and the day as described in the procedure in paragraph 4.1

1. On the request to select the **ON** type of program, select **LUX** with the **▼▲** keys. Confirm with **OK**.

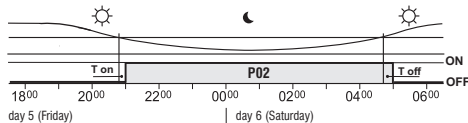
If the display shows  this indicates that the twilight sensor has not been activated; press **OK** and proceed as described in paragraph 2.2 to activate it.

2. Use the **▼▲** keys to enter the LUX value at which the connected utility must switch-on (default 10 lux). Confirm with **OK**.
3. Select the **OFF** type of program with the **▼▲** keys. Confirm **LUX** with the **OK** key.
4. Use the **▼▲** keys to enter the LUX value at which the connected utility must switch-off. Confirm with **OK**.

*Important: the LUX value (OFF) must be greater than the LUX ON value entered in point 2, otherwise it will not be accepted by the device and **Err** will appear for a few seconds on the display.*

EN The display first shows **OKAY**, and immediately after the number of free programs left and then the last set program. Set a new program or press the **MENU** key 2 times to exit: the display will show the main screen (normal operation).

IMPORTANT! For **copy** a saved program on other days, see the procedure in the paragraph 4.3.



Twilight operation

When the brightness received by the sensor is less than the "LUX ON" set value, the relay will close the contact after a delay (about 15 sec.) called **T_{on}**.

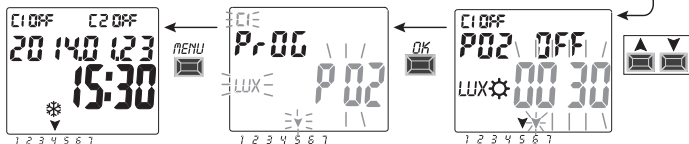
In contrast, when the brightness received by the sensor exceeds the "LUX OFF" set value, the relay will open the contact after a delay (about 30 s) called **T off**.

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Example **P02 LUX** type of program:

allows you to set programs that
according to the set brightness.

The program starts (LUX ON) when the brightness value measured by the sensor is less than the set threshold (e.g. at twilight) and ends (LUX OFF) when the measured value exceeds the threshold (e.g. sunrise of the next day).



4.1.2.a) Forcing Twilight (LUX)

The unit is configured to activate the selected channel via twilight override, when the brightness received by the sensor is less than the set LUX threshold value and disable it when the brightness is above the threshold.

TOTAL or **PARTIAL** twilight override can be selected according to the system requirements:

- **TOTAL twilight override:** intervention has priority over programs (ASTRO-LUX-TIME) in progress. This type of override is useful, for example, to enable/disable the channel as a normal twilight device.

- **Type of PARTIAL twilight override:**

note: PARTIAL twilight override can only be selected if the ASTRO procedure has been previously set (see paragraph 2.1). Night time is calculated based on the astronomical coordinates.

In the night time, forcing partial twilight is disabled, thereby allowing any programs in progress to be executed normally. This kind of override is useful for example, to enable/disable the channel if, during the day, the ambient light drops below the set threshold (for example, when cloudy, rainy, etc.).

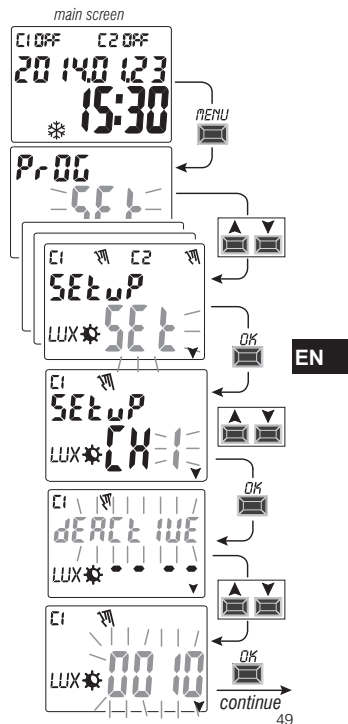
note: if the device is reset, no types of set twilight override are deleted.

How to set the type of twilight override:

1. Press the **MENU** key on the main menu to access the first menu (**PROG SET**).
2. Use the **▲▼** keys to select the **SETUP LUX SET** menu. Confirm with **OK**.

If the display  shows indicates that the twilight sensor has not been activated; proceed as described in paragraph 2.2 to activate it.

3. Use the **▲▼** keys to select channel **CH1** or **CH2** (only for the dual-channel model).
note: in the dual-channel version you can set a LUX override threshold that is different for each channel.
4. Confirm with **OK**.
Deactive appears (indicating that no LUX override threshold is set for that channel).
5. Use the **▲▼** keys to set the desired LUX threshold value (minimum 5 lux). Confirm with **OK**



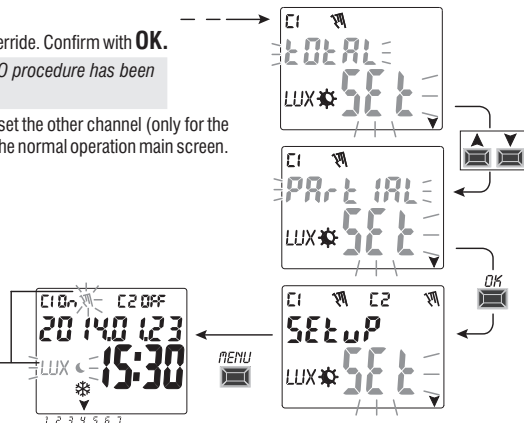
6. Use the ▲▼ keys to select the desired **TOTAL or PARTIAL** twilight override. Confirm with **OK**.

Important: PARTIAL twilight override can only be selected if the ASTRO procedure has been previously set (see paragraph 2.1).

7. The display returns to the LUX override set-up screen and you can also set the other channel (only for the dual-channel model) or press the **MENU** key to exit the setting and view the normal operation main screen.

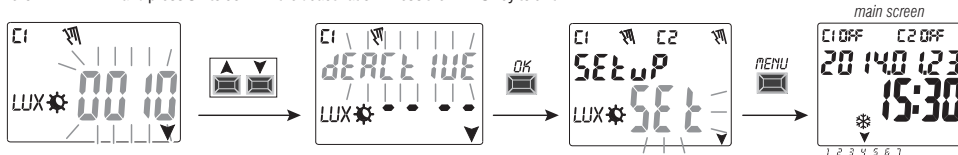
EN

If the set twilight override activates the channel/s, the display will show C1 On ☼ and/or (only dual-channel model) C2 On ☼☼ symbol and LUX flashing).



4.1.2.b) Disable twilight override

To disable the twilight override, follow the steps described at previous page, above up to step 4 and use the ▲▼ keys to decrease the LUX value previously set to zero ● ● ● ● and press **OK** to confirm the deactivation. Press the **MENU** key to exit.



4.1.3) TIME/TIME type of program

Allows a load to start-up (time ON) and switch-off (time OFF) in a defined period of time.

After having selected the program number, the channel (only for the dual-channel model) and the day as described in the procedure in paragraph 4.1:

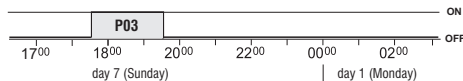
1. On the request to select the **ON** type of program (ASTRO is suggested by default), select TIME with the **▲▼** keys. Confirm with **OK**.
2. Use the **▲▼** keys to enter the start-up time (ON). Confirm with **OK**.
3. Use the **▲▼** keys to enter the minutes. Confirm with **OK**.
4. Select the **OFF**, type of program and use the **▲▼** keys to select **TIME**. Confirm with **OK**.
5. Use the **▲▼** keys to enter the switch-off time (OFF). Confirm with **OK**.
6. Use the **▲▼** keys to enter the minutes. Confirm with **OK**.

The display first shows **OKAY** and immediately after the number of free programs left and then the last set program. Set a new program or press the **MENU** key to exit.

The display shows the main screen (normal operation).

IMPORTANT! For **Copy** a saved program on other days, see the procedure in the paragraph 4.3.

Example: P 03 TIME/TIME time type of program day 7 (Sunday) start-up ON at 17:45 - switch-off OFF at 19:30

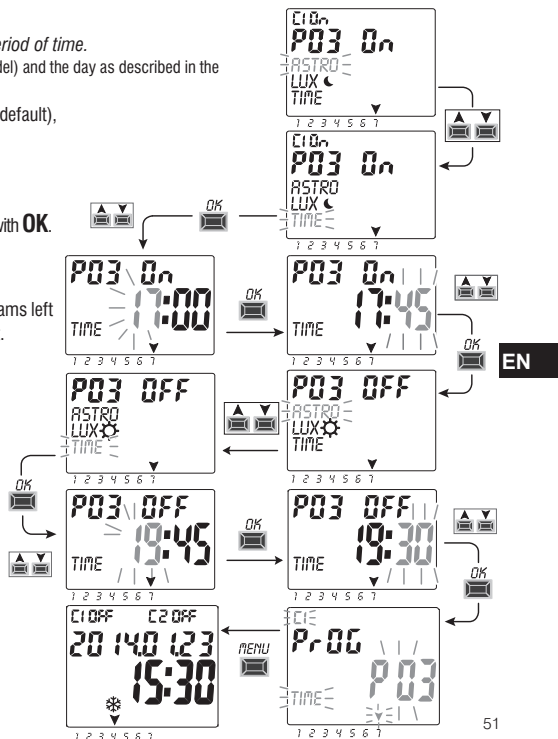


4.1.3.a) Implementing a program lasting a few days

If the **▲** key is pressed beyond 00:00 while setting the switch-off time **OFF**, the program will end on the day after activation; the arrow corresponding to the day after start-up will flash. Scrolling the hours up to 00:00 once again will set the program active for two days, etc.; the two arrows corresponding to the two days after start-up will flash. If you press the **▼**



key and a switch-off time earlier than start-up is set, the program will remain active throughout the week; all the arrows corresponding to the days will flash.



4.1.4) Combining ASTRO-LUX-TIME programs

You can also set the combined programs according to the specific requirements, starting with a type of program (example: ASTRO) and ending with another type (example: TIME).

- «**standard**» programs: ASTRO / ASTRO - LUX / LUX - TIME / TIME

- «**combined**» programs: ASTRO / TIME - TIME / ASTRO - TIME / LUX - LUX / TIME - ASTRO / LUX - LUX / ASTRO

Follow the same procedure described in paragraph 4.1 to enter a desired combined program.

4.1.4.a) Combination of ASTRO / TIME

Combination of ASTRO / TIME programs You can set the programs that start at astronomical sunset (ASTRO ON) and end at a fixed time (TIME OFF).

NOTE: when creating the ASTRO / TIME program, 23:59 is suggested as TIME OFF (editable) on the selected day.

- A program ends on the same day if the TIME OFF setting is before midnight

example: program start-up (ASTRO ON) at astronomical sunset e.g. at 18:30 and ends (TIME OFF) at 22:30 on the same day.

NOTE: the TIME OFF switch-off time must be after the ASTRO ON time (otherwise the program is not valid and is not implemented).

- A program ends the next day if the TIME OFF is set after midnight

example: program start-up (ASTRO ON) at astronomical sunset e.g. at 18:30 and ends (TIME OFF) at 06:30 the next day.

NOTE: TIME OFF switch-off time cannot be after 11:59 the next day.

EN 4.1.4.b) Combination of TIME / ASTRO programs

You can set the programs that start at a fixed time (TIME ON) and end at an astronomical sunrise (ASTRO OFF).

- A program ends on the same day if the TIME ON setting is before midday

example: program start-up (TIME ON) at 05:30 and ends (ASTRO OFF) at astronomical sunrise on the same day e.g. at 06:30.

NOTE: the TIME ON start-up time must be before the ASTRO OFF time (otherwise the program is not valid and is not implemented).

- A program ends the next day if the TIME ON setting is after midday

example: program start-up (TIME ON) at 22:30 and ends (ASTRO OFF) at astronomical sunrise the next day e.g. at 06:30.

4.1.4.c) Combination of LUX / TIME programs

You can set the programs that start at sunset (LUX ON) detected by the twilight sensor and end at a fixed time (TIME OFF).

When creating the program, 23:59 is suggested as TIME OFF (editable) on the first day.

- A program ends on the same day if the TIME OFF setting is before midnight

example: program start-up (LUX ON) at twilight according to the set threshold e.g. at 18:45 and ends (TIME OFF) at 22:30 on the same day.

- A program ends the next day if the TIME OFF setting is after midnight

example: program start-up (LUX ON) at twilight according to the set threshold e.g. at 18:45 and ends (TIME OFF) at 06:30 the next day.

NOTE: TIME OFF switch-off time cannot be after 11:59 on the next day.

NOTE: if the initial condition occurs, the amount of light is below the set threshold, the program does not run after the set switch-off time (TIME OFF).

(example: a LUX ON threshold is set that starts-up at about 19:20 and TIME OFF is set to switch-off at 19:00).

4.1.4.d) Combination of TIME / LUX programs

You can set the programs that start at a fixed time (TIME ON) and end when the brightness will exceed the threshold set in the program (LUX OFF).

- A program ends on the same day if the TIME ON setting is before midday

example: program start-up (TIME ON) at 05:30 and ends (LUX OFF) at sunrise according to the set threshold e.g. at 06:30 on the same day.

NOTE: once switch-off is implemented, i.e. the amount of light is higher than the set threshold, the program is terminated. If dimming occurs (e.g. cloudy weather or a storm), the program will not be executed.

NOTE: if during the program start-up set time (TIME ON), switch-off occurs before, i.e. the amount of light is higher than the set threshold, the program is not executed (example: TIME ON set to a fixed time: 7:30 and a LUX OFF threshold is set that switches off at about 06:20).

- A program ends the next day if the TIME ON setting is after midday

example: program start-up (TIME ON) at 22:30 and ends (LUX OFF) at sunrise according to the threshold set on the next day e.g. at 06:30.

NOTE: if during the program start-up set time (TIME ON), switch-off occurs before, i.e. the amount of light is higher than the set threshold, the program will last about 1 minute and will then restart when dimming occurs and will terminate at sunrise the next day when the light will be higher than the threshold set.

4.1.4.e) Combining ASTRO/LUX programs

You can set the programs that start at astronomical sunset (ASTRO ON) and end at sunrise the next day (LUX OFF) when the brightness will be greater than the threshold set in the program.

NOTE: if during program start-up (ASTRO ON), switch-off also occurs (LUX OFF), i.e. the amount of light is higher than the set threshold, the program will last about 1 minute. The program will start again when dimming occurs and will terminate at sunrise the next day when the brightness will be higher than the threshold set in the program.

EN

4.1.4.f) Combining LUX / ASTRO programs

Programs can be set to start at sunset detected by the twilight sensor (LUX ON) and ends at sunrise the next day (ASTRO OFF).

4.2) Visualizing or modifying a program (ASTRO / LUX / TIME) already saved

You can view or edit a previously saved program as follows (or as described in Chap. 4.1):

1. Press the **MENU** key on the main menu (normal operation) to access the first menu (**PROG SET**). Confirm with **OK**.

2. Select the program that is to be viewed or modified using the **▲▼** keys. Confirm with **OK**.

Press the **OK** key consecutively for the settings to appear again and reconfirm them. Change a setting by using the **▲▼** keys and confirm with the **OK** key.

View or edit all the settings until **OKAY** appears for a few seconds.

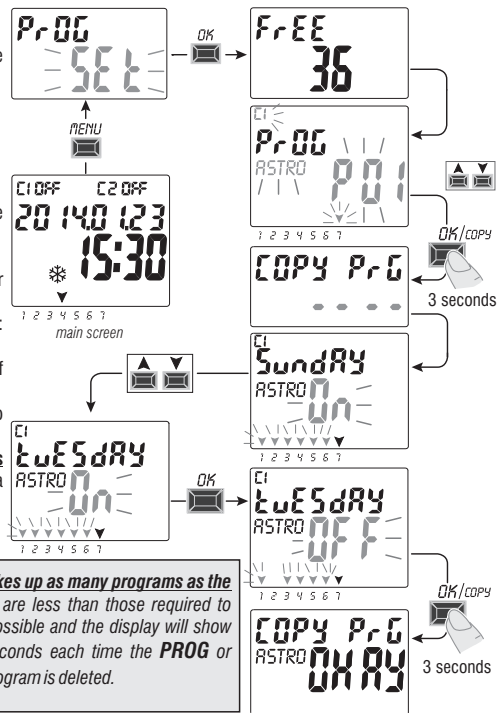
Exit the **PROG SET** menu by pressing the **MENU** key twice.

4.3) Copying a program

Copy a saved program (ASTRO/LUX / TIME / COMBINED) on other days of the week, as follows:

 If you are already in the programs menu and the saved program to load is displayed, proceed from point 3.

1. Press the **MENU** key to access the first menu (**PROG SET**).
Confirm with **OK**.
The number of free programs will be displayed for about 2 seconds, then the first program **P01** will appear flashing.
 2. Select the program that is to be copied using the **▲▼** keys.
 3. **Press the OK key for 3 seconds:** first appears ---- and immediately after **COPY Pr**
 4. The display shows the day of the program that is to be copied (example: Sunday) and suggests the rest of the days of the week and **ON** flashing.
In this condition, the program would be copied for every day of the week, if confirmed by pressing the **OK** key for 3 seconds
 5. If you want to exclude a few days, press the **▲▼** keys to select it, press **OK** to switch to **OFF**. The arrow corresponding to the selected day will go off.
 6. Once you have selected the days that the program is to be copied to, **press the OK key for 3 seconds**. The unit copies and the display shows **OKAY** for a few seconds and then displays the last copied program.
- Exit and return to the main menu by pressing the **MENU** key twice.



FULL MEM
1 2 3 4 5 6 7
e.g. display for a few seconds

IMPORTANT: when a program is copied, the unit takes up as many programs as the selected days of the week. If the free programs are less than those required to complete the copy, the unit will only copy those possible and the display will show **FULL MEM**. This will be displayed for a few seconds each time the **PROG** or **HOLIDAY** menus are accessed until some saved program is deleted.

5 - «HOLIDAY» program menu

This menu allows you to create, test, modify and delete the «HOLIDAY» programs.

The holiday programs allow you to set different periods during the year when to suspend the on/off programs combined with channel 1 and/or 2 (dual-channel mod.), example for Christmas and summer shutdown of a public or sales department.

5.1) Creating a new HOLIDAY program

1. Press the **MENU** key: the first menu is accessed (**PROG SET**).

2. Use the **▲▼** keys to select the **HOLIDAY SET**. Confirm with **OK**.

The number of free programs will be displayed for about 2 seconds, then the first free program will appear flashing if no Holiday program has been entered in the device (example: **P06**).

Use the **▲▼** keys to select the desired free Holiday program. Confirm with **OK**.

• If there are one or more Holiday programs saved, the display shows the first Holiday program entered; press the **▲** key for 2 seconds to rapidly move to a free Holiday program that is to be set.

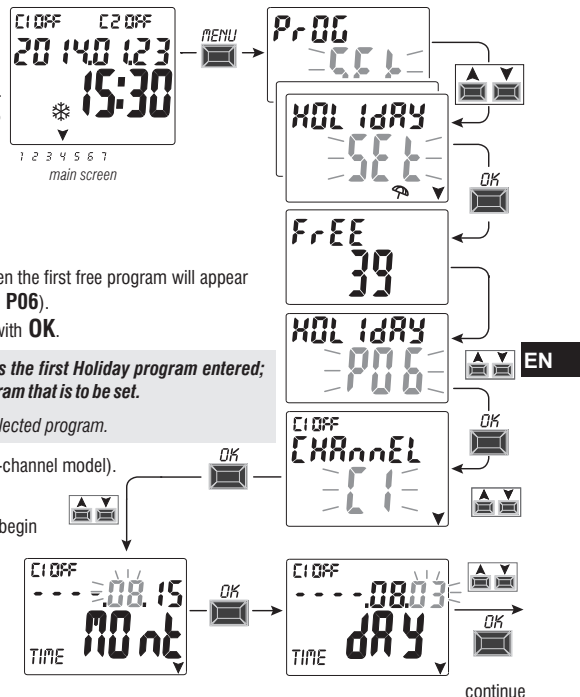
• Press the **▲▼** keys simultaneously for 2 seconds to rapidly delete the selected program.

3. Use the **▲▼** keys to select channel **C1** o **C2** o **both** (only for the dual-channel model).

Confirm with **OK**.

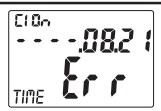
4. Use the **▲▼** keys to select the month when program suspension is to begin (OFF) (the number of the month flashes). Confirm with **OK**.

5. Use the **▲▼** keys to select the day when program suspension is to begin (OFF) (the number of the day flashes). Confirm with **OK**.



6. Use the ▲▼ keys to select the month when program suspension is to be terminated (ON) (the number of the month flashes). Confirm with **OK**.
7. Use the ▲▼ keys to select the day when program suspension is to be terminated (ON) (the number of the day flashes). Confirm with **OK**.

Attention: if the dates set for OFF and ON are the same and **OK** is pressed, **Err** will appear on the display for a few seconds and then returns to step 3 (channel selection) and then enter the desired dates.

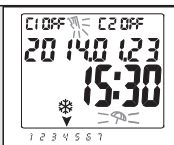


8. After entering the program, the display first shows **OKAY** and immediately after the number of free programs left and then the last set program.
Set a new holiday program or press the **MENU** key twice to exit and return to the main screen.

EN

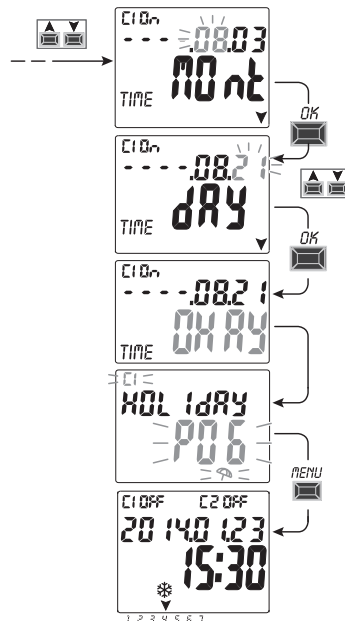
*Note: if the set suspension end month (ON) is before the set suspension start month (OFF), the **HOLIDAY** program will start in the current year and will end the following year (useful function to save a program at the end of the year).*

When a Holiday program is active, the manual icon (of the relevant channel/s) flashes on the display together with the umbrella icon.



5.2) Visualizing or modifying a HOLIDAY program already saved

Enter the **HOLIDAY SET** menu as described in point 1 on the previous page, select the desired Holiday program with the ▲▼ keys and confirm with **OK**. Press the **OK** key consecutively for the settings to appear again and reconfirm them. Change a setting by using the ▲▼ keys and confirm with the **OK** key. View or edit all the settings until **OKAY** appears for a few seconds. Exit the **HOLIDAY SET** menu by pressing the **MENU** key.



6 - Deleting a program («ERASE PG» menu)

1. Press the **MENU** key to access the first menu (**PROG SET**).
2. Use the **▲▼** keys to select the **ERASE PG SET** menu.
Confirm with **OK**.
3. The display shows the **ERASE PG SING** screen to delete a single program or use the **▲▼** keys to select **ERASE PG ALL** to delete all the saved programs (including the **HOLIDAY** programs possibly saved).

4a. If **ERASE PG SING** is selected, confirm with **OK**.

Use the **▲▼** keys to select the program that is to be deleted.

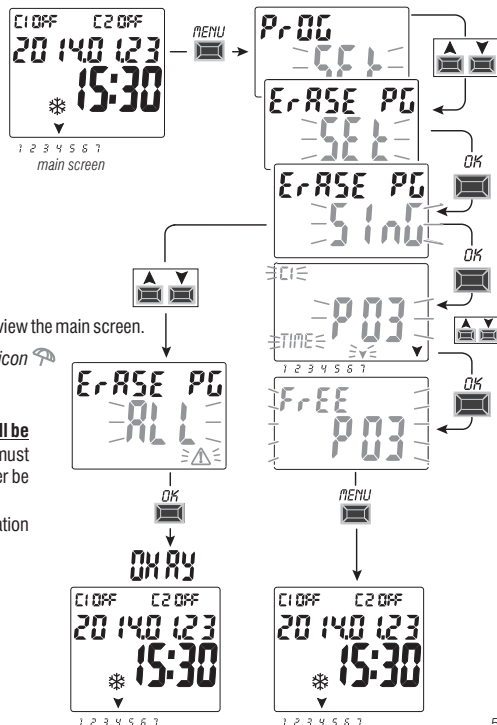
Confirm with **OK**; the program will be deleted.

Another program can be deleted or press the **MENU** key 3 times to exit and view the main screen.

*Note: if the selected program that is to be deleted is a **HOLIDAY** program, the icon ☂ will appear under the program number.*

- ### 4b. If you choose **ERASE PG ALL**, and confirm with **OK** all the programs will be deleted from the memory (the flashing ⚠ icon indicates that attention must be paid because this operation will delete all the programs and will no longer be recoverable).

After a few seconds **OKAY** appears on the display and then the normal operation main screen.



7 - «OVERRIDE» menu

This menu allows you to **manually force** the status of the outputs/s (dual-channel mod.) regardless of the active programs. Generally used to test or perform maintenance of the connected load.

Activating an override

1. Press the **MENU** key to access the first menu (**PROG SET**).
2. Use the **▲▼** keys to select the **OVERRIDE SET**. Confirm with **OK**.
3. Use the **▲▼** keys to select channel CH1 or CH2 (dual-channel mod.). Confirm with **OK**.
4. Use the **▲▼** keys to select the override mode (according to that indicated in the table). Confirm with **OK**. **OKAY** appears for a few seconds and then the display will show the selected setting.

Override mode	Display symbol	Channel-Condition	Override function
AUTO		C1 C2	No override on the channel, program-controlled
PERM		C1 On C2 On	Activated permanent channel
PERM		C1 OFF C2 OFF	Disabled permanent channel.
TEMP		C1 On C2 On	Activated channel until any program intervenes .
TEMP		C1 OFF C2 OFF	Channel disabled until any program intervenes .

- EN** 5. **Disable the manual override** by setting channels C1 and/or C2 (dual-channel mod.) to **AUTO**. Confirm with **OK**.

*Note: you can access directly from the main screen to the **OVERRIDE** menu of channel **CH1** by pressing simultaneously the **MENU+▲** and the **OVERRIDE** menu of channel **CH2** (dual-channel version) by pressing the **OK+▼** keys simultaneously.*

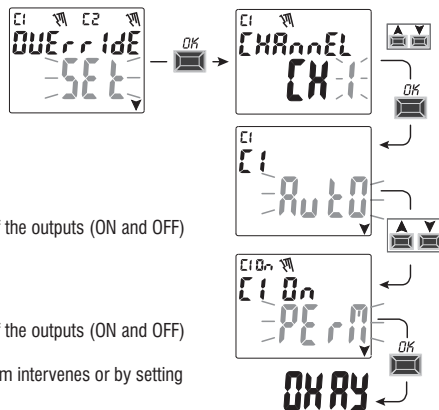
6. Exit and return to the home screen by pressing the **MENU** key three times.

Permanent manual override (PERM)

This mode has the highest priority. This allows you to manually override the status of the outputs (ON and OFF) **permanent** regardless of that required by the saved programs. Disable the manual override permanently by setting the channel/s to **AUTO**.

Temporary manual override (TEMP)

This mode has the highest priority. This allows you to manually override the status of the outputs (ON and OFF) **temporary** regardless of that required by the saved programs. The temporary manual override is automatically disabled when the first saved program intervenes or by setting the channel/s to **AUTO**.



8 - «OPTION» menu

The following is possible from this menu:

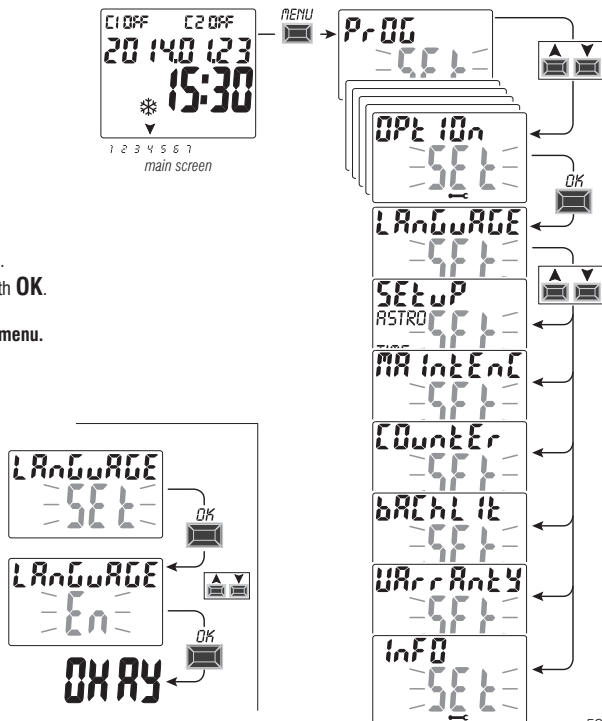
- Language selection
- ASTRO / TIME setting
- Maintenance
- Hour counter
- LED light (backlighting)
- Warranty
- Info
- EMD key (only with key inserted, see paragraph 8.8)

1. Press the **MENU** key to access the first menu (**PROG SET**).
2. Use the **▲▼** keys to select the **OPTION SET**. Confirm with **OK**.
3. The sub-menu is accessed.

Proceed as described below according to the selected sub-menu.

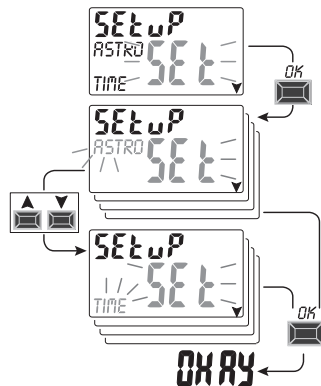
8.1) CHANGING THE LANGUAGE

1. From the **LANGUAGE SET**, confirm with **OK**.
2. Use the **▲▼** keys to select the desired language from
IT -> EN -> DE -> FR -> ES
Confirm with **OK**. *OKAY* appears on the display.
3. Exit and return to the main screen by pressing the **MENU** key twice.



8.2) SETUP

1. From the **SETUP SET** sub-menu confirm with **OK**.
2. Use the **▲▼** keys to select between **ASTRO** and **TIME**. Confirm with **OK**.
3. If you select **ASTRO SET** you can activate/deactivate the astronomical function and enter and/or edit the coordinates. Proceed as described in paragraph 2.1.
4. If you select **TIME SET** you can edit the data concerning: year, month, day, hour, minutes and summer or winter time (as described in chapter 2 - «First start-up»).
5. When you finish editing or viewing the data, confirm with **OK**, and **OKAY** appears on the display for a few seconds followed by the modified **ASTRO** or **TIME SET** settings.
6. Exit and return to the home screen by pressing the **MENU** key twice.

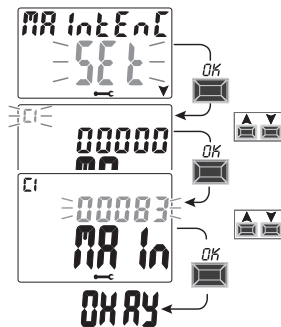


EN

8.3) MAINTENANCE (MAINTENC)

This function allows you to set an ON operating period for each channel, after which the digital switch indicates that maintenance is required on the device connected to the relevant channel.

1. From the **MAINTENC SET** sub-menu confirm with **OK**.
2. Use the **▲▼** keys to select the desired channel from **CH1** or **CH2** (dual-channel model).
Confirm with **OK**.
3. Use the **▲▼** keys to set the maintenance frequency (in hours).
(press the **▲** key or **▼** pulse key to increase or decrease individually and keep pressed to increase or decrease in tens).
4. Confirm with **OK** and **OKAY** appears on the display for a few seconds.
5. Exit and return to the home screen by pressing the **MENU** key three times.



8.3.a) Managing a maintenance operation

- Once the operating hours set for one or both channels (dual-channel model) are reached, **MAINTEN** will appear on the main screen in cyclic repetition alternating with the current **DATE** (example in the figure at the side: channel 1 in Maintenance).
- In this condition you can override the status of the outputs (from the **MANUAL** menu) and manage the maintenance intervention.
- Eliminate the maintenance alert from the main screen by:
 - keeping the **▲** key pressed for 3 seconds to reset the alarm of channel C1,
 - keeping the **▼** key pressed for 3 seconds to reset the alarm of channel C2 (dual-channel model).
 This will reset the channel and the count of the hours set starts from the beginning.

Attention: when the **MAINTENC** text is deleted, the counter is automatically rebooted and the count starts again.

Attention: if you change the maintenance interval any partial count already taken will be lost.

Disabling the «Maintenance» function

In order not to use the **MAINTENANCE** function, set the counter to zero for channel C1 and/or C2 (dual-channel model).

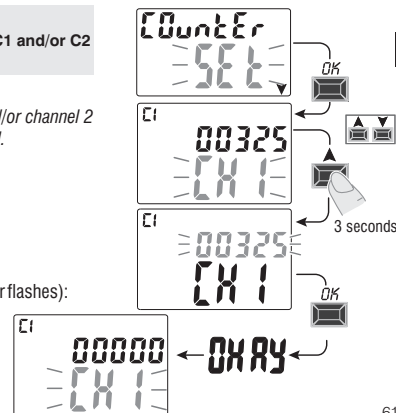
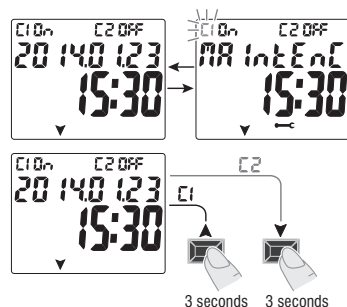
8.4) HOUR COUNTER

This feature allows you to view and reset the count of operating hours in **ON** for channel 1 and/or channel 2 (dual-channel mod.). This is useful to monitor the life of the load/device connected to the channel.

1. From the **COUNTER SET** sub-menu confirm with **OK**.
2. Use the **▲▼** keys to select the desired channel from **CH1** or **CH2** (dual-channel model).
The operating hours of the selected channel will be displayed.

Reset the hour counter:

3. Use the **▲▼** keys to select the desired channel from **CH1** or **CH2** (dual-channel model).
4. Press the key corresponding to the selected channel for 3 seconds (the number of the hour flashes):
 - key **▲** for channel CH1
 - key **▼** for channel CH2 (only for the dual-channel model)
5. Press **OK**: **OKAY** appears on the display for a few seconds and the count is reset.
6. Exit and return to the home screen by pressing the **MENU** key three times.



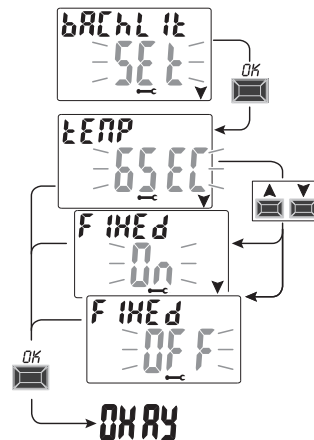
EN

8.5) BACKLIGHTING

This function allows you to set the display backlighting in three modes:

- **Timed** = on for 6 seconds after a key is pressed.
- **Fixed ON** = always on (default)
- **Fixed OFF** = always off

1. From the **BACHLIT SET** sub-menu confirm with **OK**.
2. Use the **▲▼** keys to select the desired setting. Confirm with **OK**.
OKAY appears on the display for a few seconds.
3. Exit and return to the home screen by pressing the **MENU** key three times.

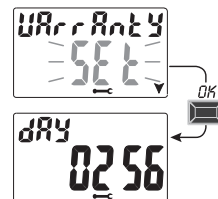


8.6) WARRANTY

This function allows the elapsed time (in days) to be displayed from when the product is commissioned.

This data is useful in terms of its warranty.

1. From the **UARRANTY SET** sub-menu confirm with **OK**.
2. The days elapsed since the product was commissioned are displayed.
3. Exit and return to the home screen by pressing the **MENU** key three times.



8.7) INFO

This feature allows you to view information about the version of software installed on the product.

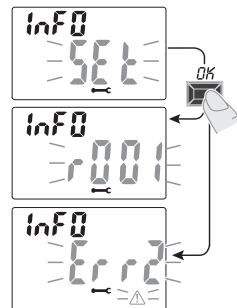
1. From the **INFO SET** sub-menu confirm with **OK**.
2. Information about the version of software is displayed.
3. Exit and return to the home screen by pressing the **MENU** key three times .

*Note: if the  warning symbol appears on the home screen, the corresponding error code **Err2** (twilight sensor fault) is displayed when this sub-menu is accessed. This error occurs when the sensor does not detect a value above the threshold of the 5 LUX for over 7 days.*

In this case, verify that the sensor is not faulty, disconnected or obscured.

The warning disappears automatically when the sensor is reset.

Even in the presence of the  warning symbol the LUX programs will still run.

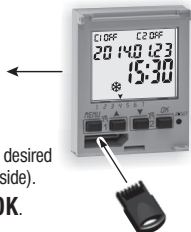


8.8) EXTERNAL MEMORY DEVICE (EMD)

The EMD is an external memory card that can handle **45** ON/OFF programs, including the «Holiday» programs.

Note: the EMD is the programming key.

1. Insert the EMD: the display shows the **EMD SET** memory management sub-menu.



2. Confirm with **OK**.
3. Use the **▲▼** keys to select the desired sub-menu (see the table at the side).
4. Confirm each selection with **OK**.

OKAY will appear on the display for a few seconds, which indicates the operation was successful.

«EMD» - External memory device

Sub-menu	Function	Notes
EXECUTE -Emd-	Executes programs directly from the EMD	The programs are only executed by the EMD excluding the programs on the device
SAVE in -Emd-	Saves all the device memory to the EMD	Overwrites all existing programs on the EMD
COPY FROM -Emd-	Copies all the contents from the EMD to the device memory	Overwrites all existing programs on the device
READ -Emd-	Reads programs from the EMD	Shows only programs on the EMD
Hol id in -Emd-	Copies Holiday programs from the device to the EMD	Overwrites all Holiday programs on the EMD
Hol FROM -Emd-	Copies Holiday programs from the EMD to the device	Overwrites all Holiday programs on the device
DELETE -Emd- 	Deletes the programs on the EMD	Permanently deletes all the EMD memory

EN

8.8.a) Exclusion of the EMD

Press the **MENU** key three times to exclude the EMD and return to the home screen.

If desired, remove the EMD from its slot.

8.8.b) Accessing the EMD

Access the EMD once again as follows (**with the EMD inserted in its slot**):

1. Press the **MENU** key to access the first menu (**PROG SET**).
2. Use the **▲▼** keys to select the **OPTION SET** menu.
Confirm with **OK**.
3. Use the **▲▼** keys to select the **EMD SET** menu. Confirm with **OK**.
4. Access the 1st sub-menu «**EXECUTE EMD**»
(proceed as described in paragraph 8.8 and the relevant table).
5. Exclude the EMD and return to the home screen by pressing the **MENU** key three times.

If desired, remove the EMD from its slot.

Attention: the memory key can be used to share data only in the devices of the same model, otherwise the display will show error messages.

