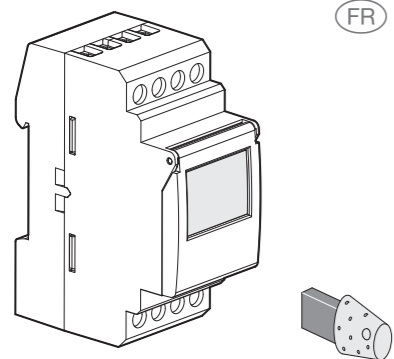




**1 channel electronic time switch weekly cycle**

6LE002435A



**EG103D**

**Major characteristics**

- Product delivered with current time and date set.
- Automatic change of winter/summer time  $\ast/\#$ .
- Programming key  $\blacktriangleleft$ .
  - for permanent waivers,
  - for program copy or save.
- Programming for day or group of days.
- 56 program steps On, Off or impulses  $\perp$  (1 sec to 30 min).
- Permanent overrides On or Off (👉 permanent light on).
- Temporary overrides On or Off (👉 flashing).
- Holiday mode  $\mathcal{H}$ : overrides On or Off between two dates.
- Simulation of presence  $\mathcal{P}$ .
- Display bar graph of daily profile.
- Keyboard locking possible  $\mathcal{L}$ .
- Programmable with power off.

**Technical specifications**

**Electrical characteristics**

- Supply voltage: 230 V~ +10%/-15% 50/60Hz  
240 V~ +/-6% 50/60Hz
- Frequency: 50/60 Hz
- Power consumption: max. 5 VA at 50 Hz
- Output: 1 changeover volt free contacts
- Maximum load
  - AC1:  $\mu$ 16A 230 V~
  - Cos  $\varphi = 0,6$ :  $\mu$ 10A 230 V~
  - Incandescent lighting: 2300 W
  - Halogen lighting 230 V~: 2300 W
  - Compensated fluorescent tubes // (max. 45  $\mu$ F): 400 W
  - Non compensated fluorescent tubes, compensated in series: 1000 W
  - Compact fluorescent lamps: 500 W
- Minimum current AC1: 100 mA 230 V~
- Galvanic insulation between power supply and output: < 4 kV
- Rated impulse voltage: 4 kV
- Upstream circuit breaker: 16 A
- Size: 21 (17,5 mm x 2)
- Max. altitude: < 2000m
- Voltage and current declared for the needs of EMC emissions tests: 230 V~ / 0,5 A

Independent panel-mounted (DIN rail) control device

**Functional characteristics**

- Programming capacity: 56 pas
- Minimum time between 2 steps: 1 minute
- Running accuracy:  $\pm 1,5$  sec / 24h
- Operating reserve lithium battery provides 5 years of backup
- The product is set into standby state (display switched-off) after 1 minute with power off. It switches back into auto mode as soon as power is back or when pressing any key
- Protection degree: IP 20
- Action type: 1B
- Pollution category: 2
- Software structure: class A

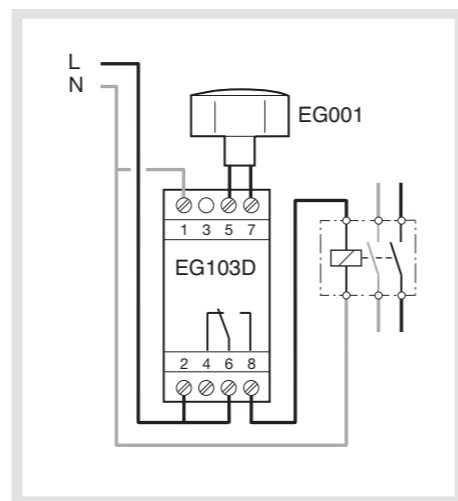
**Environment**

- Operating temperature: -5 °C to +45 °C
- Storage temperature: -20 °C to +70 °C

**Connection**

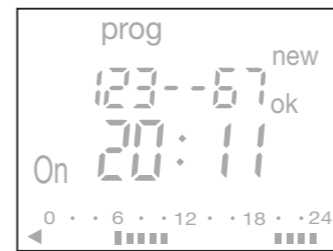
- Flexible capacity: 1 to 6 mm<sup>2</sup>
- Rigid capacity: 1,5 to 10 mm<sup>2</sup>

**Connection diagram**



**Programming: prog new**

Programming may be done for each day or for a group of days. In this case instructions are common to several days.  
Days: 1 = Monday, 2 = Tuesday, 3 = Wednesday... 7 = Sunday.



1. Select the **prog** mode using **menu**, then **ok**.
2. Select the day(s) using + or -. Validate with **ok**.
3. **ok** flashes. Use **ok** to validate the group.
4. Using + or -, select the state of the instruction: On, Off or  $\perp$ . Press **ok** to validate the state.
5. Enter the time of switch-on using + or -. Validate with **ok**.
6. Enter minutes with + or -. Validate with **ok**.
7. For On  $\perp$ , set the duration (seconds, then minutes) in the same way as for the switch-on schedule.

Program the other instructions of the group of days by repeating operations 3 to 7. The day or the group of days may be modified at the during step 3 by pressing the +, - or  $\leftarrow$ . At the end of programming return to auto mode using the **menu** button. In this mode it is also possible to add an instruction to the program set up. Proceed as described above.

**Display**

To check the daily profile set up without the risk of modification or deletion: Select the mode  $\blacktriangleleft$  using **menu** and press **ok**. The first step of Monday is displayed as well as the daily profile.

Two options available for display:

1. Pressing repeatedly + or -: lets you shift days. In this case only the first daily step is displayed as well as the daily profile.
2. Pressing **ok**: all steps of each day appear one after the other.

**Modification or clearing of a program step: prog modif**

Select the **prog** mode with **menu** and press **ok**. Select the **modif** mode with + or -. Validate with **ok**. The number of remaining program steps - appears for a short time. The first step of the first day or group of days appears. Repeatedly pressing the **ok** key displays all programmed steps one at a time. Any flashing field (state, hour, minutes) may be modified using + or -, then validated with **ok**. When the cursor is positioned on **ok** located behind the group of days, you may display successively the days or the groups of days and switch directly to the one that has to be modified using + or -. To remove a program step: select the state of the channel (One, Off or  $\perp$ ), press simultaneously + and -. **Clear** appears on the screen. Validate with **ok**.

**Key**

As soon as the key appears on the switch  $\blacktriangleleft$  appear on the screen.

Two types of operation:

- A. Permanent override:**  
Insert the key into the switch. After 10 seconds the program contained in the key will be executed without clearing the program contained in the time switch. As soon as the key appears on the switch appear on the screen.

Two types of operation:

- A. Permanent override:**  
Insert the key into the switch. After 10 seconds the program contained in the key will be executed without clearing the program contained in the time switch. As soon as the key is removed the program of the time switch is again valid.
- B. Copy (load) / Save (save):**  
The key makes it possible to save a program contained in the time switch. It is also possible to copy the contents of the key into the clock.
1. Insert the key and wait for 2 seconds.
  2. Using menu select the mode:
    - save** to save a program contained in the time switch,
    - load** to load the program of the key into the time switch,  $\blacktriangleleft$  to check the program contained in the key.
  3. Validate the selection with **ok**.
  4. For **save** and **load** reconfirm with **ok**.

The following error messages may appear on the screen:  
**no prog**: the key is empty, it does not contain any program.  
**Error**: the key is that of a one-channel switch.

In these two cases:

- Only the **save** is possible.
- The error message remains on display as long as the key is present, but in this case the program of the time switch is executed.

**Setting time and day Winter / summer time change  $\ast/\#$**

Automating setting of time/date and winter/summer time change using ref. EG001 antenna. Hourly messages are sent from DCF77 transmitter to the antenna out of Frankfurt (Germany). Upon antenna's connection, the symbol flashes on screen. A soon as time has become synchronous flashing stops. In case of transmission failure or bad reception, switch relies on its own iSelect the mode  $\mathcal{C}$  with **menu** then **ok**.

Modify the day, month, year, the hour and the minutes using + or - and **ok**.

The time switch next suggests the winter / summer time changes  $\ast/\#$ . Select the type of change desired using + or -. Validate with **ok**. The type of change depends on the geographical zone.

Types available:

Type	Start of time change Summer	Start of time change Winter	Zone of application
Euro*	Last Sunday of March	Last Sunday of October	European Union
USA	Second Sunday in March	First Sunday in November	North America
AUS	First Sunday in October	First Sunday in April	Australia
USER	Date freely programmed	Date freely programmed	
No	No change	No change	

\* type according defect

The change always takes place between 2:00 and 3:00 a.m.

When the USER type is selected:

1. Enter the day then the month of the date of change of the summer time (+ 1 hour) with + or - and **ok**.
2. Enter the day then the month of the date of change of the winter time (- 1 hour) with + or - and **ok**.

The time switch will check which days of which weeks correspond to these dates and will apply changes to the same periods for the following years independently of the date.

**Holidays  $\mathcal{H}$**

Allows you to override the output, On or Off for a given period. Once done, this override will be removed and will not be carried over to the following year. Select the mode  $\mathcal{H}$  using **menu** then **ok**. With + or -, select the state of override: On or

Off, **ok** to validate.  
Enter the day then the month of the starting period (date 1) using + or - then **ok**. Enter in the same way the day and the month of the ending period (date 2).  
In auto mode,  $\mathcal{H}$  flashes to indicate that a period of holidays was programmed.  $\mathcal{H}$  becomes permanent during the period.  
The override will be effective at 0:00 of the 1st date until 23:59 from the 2nd date.  
If date 1 is set before the day of programming, the period of holidays is valid for the following year.  
To clear a period of holidays return to the mode, press simultaneously the + and - keys. **Clear** appears. Confirm with **ok**.

**Override - Random operation  $\mathcal{R}$**

- Pressing repeatedly  $\mathcal{R}$ .  
If the state of the output is On:  
1<sup>st</sup> pressure: temporary waiver. **Off** and  $\mathcal{R}$  flash. The next program step will let you return to the automatic mode.  
2<sup>nd</sup> pressure: permanent override. **On** and  $\mathcal{R}$  are permanent. This override must be cancelled manually.  
3<sup>rd</sup> pressure: permanent override. **Off** and  $\mathcal{R}$  are permanent. This override must be cancelled manually.  
4<sup>th</sup> pressure: random operation. Simulation of presence,  $\mathcal{P}$  as well as the state of the output are displayed. Must be cancelled manually. In this case the steps of the program are shifted randomly within a range of  $\pm 59$  min.  
5<sup>th</sup> pressure: return to the automatic mode.

**Locking  $\mathcal{L}$**

To prevent all undesirable actions, the keyboard of the time switch may be locked using a key EG004. Unlocking is done in the same way.

Correct Disposal of This product (Waste Electrical & Electronic Equipment).

(Applicable in the European Union and other European countries with separate collection systems).

This marking shown on the product or its literature indicates that it should not be disposed with other household waste at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes of disposal.

Usable in all Europe  $\mathcal{C}$   $\mathcal{E}$  and in Switzerland

This device must be installed only by a qualified electrician according to the installation standards in force in the country.

**Warranty NOT APPLICABLE FOR AUSTRALIA**

A warranty period of 24 months is offered on hager products, from date of manufacture, relating to any material of manufacturing defect. If any product is found to be defective it must be returned via the installer and supplier (wholesaler). The warranty is withdrawn if:  
- after inspection by hager quality control dept the device is found to have been installed in a manner which is contrary to IEE wiring regulations and accepted practice within the industry at the time of installation.  
- The procedure for the return of goods has not been followed. Explanation of defect must be included when returning goods.