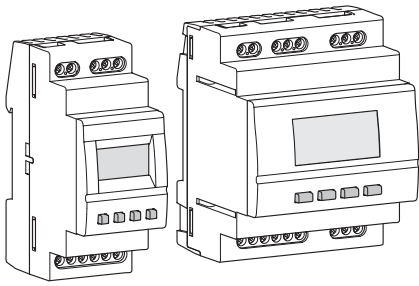


EN



## EGN200, EGN400

6LE005561C

### Multi-function Time Switch 2 Channel Bluetooth®

### Multi-function Time Switch 4 Channel Bluetooth®



Additional information is available by scanning the displayed QR code with your mobile terminal.



The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Hager is under license. Other trademarks and trade names are those of their respective owners.

### Product Presentation

The EGN200 and EGN400 time switches are clocks with weekly and annual electronic programming that automatically control different loads. Examples of applications: street lighting, neon signs, shop windows, monuments, facades etc. The integrated astronomical clock can be set to switch loads according to sunset and sunrise times. The EGN200 and EGN400 switches are also compatible with the Hager Quicklink radio product line. The connection of an EEN002 / EEN003 twilight sensor (optional) makes it possible to switch the loads according to brightness. Programming by mobile terminal is recommended via Bluetooth® technology by using the configuration application (iOS and Android) available as a free download.

### Main features

- Product delivered with updated time and day (Paris).
- Programming by application via Bluetooth® or local programming (except annual).
- Backlit screen.
- Automatic daylight savings time change.
- Astronomical mode.
- Programming by day or group of days.
- 200 or 400 program steps (depending on version) On, Off, pulses  $\Sigma$ .
- Permanent overrides On or Off.
- Temporary overrides On or Off.
- Exceptions (temporary, permanent or delayed) can be activated remotely using a push button.
- Bar graph display of the daily profile for 2 or 4 channels (depending on version).
- Programmable when off via screen only (with limited functionality).
- Twilight switch function via an EEN002 or EEN003 wired brightness sensor.

### Display and keys

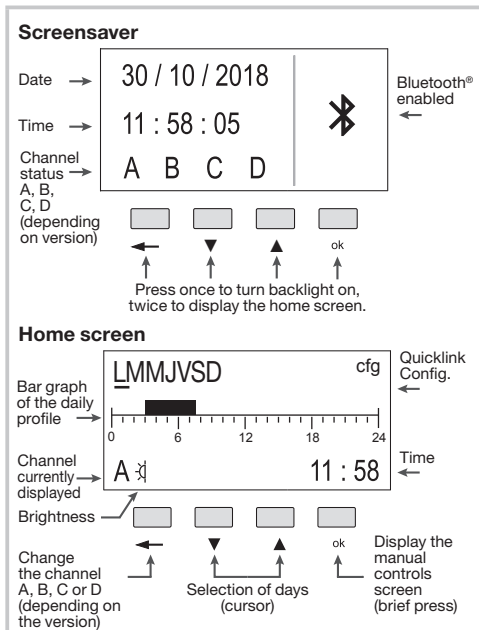


Figure 1: Presentation of the screensaver and home screen

### Connection diagram



- Device to be installed only by a qualified electrician according to the standards applicable in the country.
- Before connecting the brightness sensor, or before carrying out any operations on it, cut the 230 V power supply to the clock.

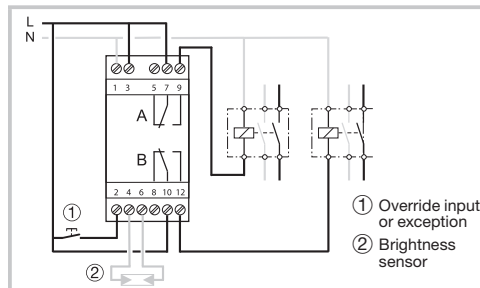


Figure 2: EGN200 connection diagram (2 outputs)

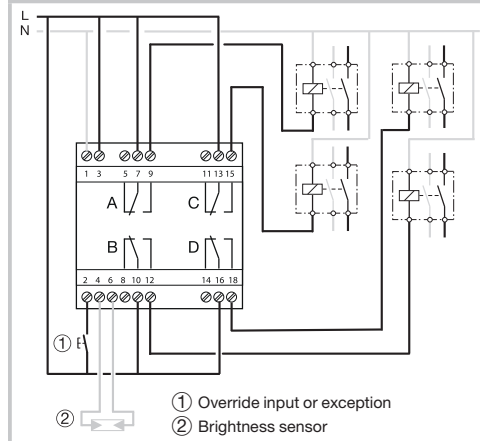


Image 3: EGN400 connection diagram (4 outputs)

### Technical specifications

#### Electrical specifications

- Supply voltage: 230 V~ +10/-15% and 240 V~ ± 6%
- Network frequency: 50/60 Hz
- Consumption: EGN200 < 350 mW / EGN400 < 500 mW
- Output 2 or 4 non-insulated changeover contacts (depending on the version)
- Max. breaking capacity: AC1  $\mu$  16A 230 V~
- Incandescent light bulbs, power relay with contact: normally open / 2300 W\_normally closed / 1500 W
- Halogen lamps: 230 V~ 2300 W
- Fluorescent tubes, compensated // (max. 45  $\mu$ F), power relay with contact: normally open / 400 W\_normally closed / 300 W
- Fluorescent tubes, uncompensated, series compensated: 1000 W
- Compact fluorescent lamps and LED lamps, power relay with contact: normally open / 400 W\_normally closed / 300 W
- Min. breaking capacity: AC1 100 mA 230 V~
- Rated shock voltage: 4 kV
- Maximum switching speed at full load: 6 switching cycles/minute

### Functional features

- Programming capacity: 200 or 400 steps depending on the model
- Min. time between 2 steps: 1 minute
- Precision of operation:  $\pm 0.25$  s/day
- The product switches to the standby state (display off) after 1 minute of no voltage or inactivity. It returns to auto mode when power is restored or when a key is pressed.
- Bluetooth® radio frequency: 2.4 - 2.483 GHz
  - Max. transmitting power: 10 mW
  - Range: 10 m in free field
  - Version: 4.2
- Mobile/PC terminal configuration
  - iOS version equal to or greater than 8
  - Android version equal to or greater than 5.1
  - Windows version equal to or greater than 10
  - Bluetooth®: version equal to or greater than 4.2
- Quicklink radio frequency: 868 - 870 MHz
  - Max. transmitting power: 25 mW
  - Receiver category 2
  - Range: 100 m in free field
- Insulation class: 2
- Action type: 2B
- Software class: Class A
- Ball test T°: 75 °C
- Upstream protection: 16 A circuit breaker
- Stated voltage and current for EMC emissions testing: 230 V~ / - 0.5 A
- Protection class: IP20 (case), IP30 (case under faceplate)
- Impact resistance: IK04

### Battery

- Power reserve: 10 years with no action
- Non-replaceable and non-rechargeable

### Case

- EGN200 dimensions: 36 mm / 2 modules
- EGN400 dimensions: 72 mm / 4 modules
- DIN rail mounted independent product according to EN 60715

### Environment

- Operating T° -5 °C to +45 °C
- Storage T° -25 °C to +70 °C
- Relative humidity: 95 % to 20°C
- Pollution category 2

### Connection with screw terminals

- Rigid 0.2 to 4 mm<sup>2</sup>
- Flexible 0.2 to 2.5 mm<sup>2</sup>
- Screw recess: PH1

### Initial set-up

#### With the configuration application

If the application is used to configure the clock, install as described below.

1. Directly access the download link of the application by scanning the QR code printed on the clock and the instructions with a mobile terminal.
2. Download and install the configuration application.
3. Check that Bluetooth® is enabled (see **Settings / BLUETOOTH** chapter).
4. Pair your mobile terminal and your clock via the Bluetooth® application.
5. Program your product via the application. To do this, follow the application instructions to configure the clock.

#### With the local programming interface

During initial set-up, set the following:

- language;
- year, month, day;
- hour and minutes;
- daylight savings time change.

Press keys  $\blacktriangle$ / $\blacktriangledown$  to enter the required settings on the display.

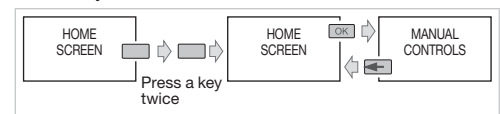
Press the **ok** key to confirm.

Once the settings are completed, the clock switches to automatic mode.

### Manual commands

From the screen saver, press one of the 4 keys twice to activate the backlight and then switch to the home screen. Display the manual controls screen by pressing the **ok** key.

From the screen saver, press one of the 4 keys twice to activate the backlight and then switch to the home screen. Display the manual controls screen by pressing the **ok** key.



All programming and settings are based on the following principle:

- Keys  $\blacktriangle$ / $\blacktriangledown$  are used to navigate between outputs A, B, C and D (depending on version).
- briefly press the OK key repeatedly to display the various manual control options for the selected output.

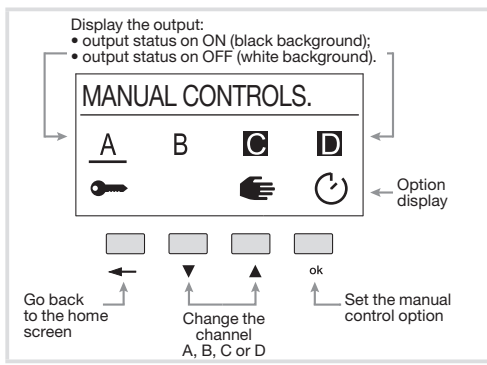


Figure 4: presentation of the manual controls screen.

The ← key can be used to return to the home screen at any time.

The manual control options available for each output (A, B, C and D) are:

- ⌚: exception on ON or OFF of the output with respect to the current command. The return to automatic mode will occur at the next program step.
- 🔑: override on ON or OFF of the output (permanent command). The override function forces an output when in ON or OFF status. No other command (ON, OFF, timer, pulse or exception) is taken into account if the override is active. Only cancelling the override or a manual command via the front panel will authorize other commands again.
- 👤: manual on ON or OFF of the output (highest priority command and only available if the product has these buttons).

Priority: Manual mode > Override > Exception.

## Reset

It is possible to reset the Bluetooth® and RF modules independently or switch back to the product factory settings.

Reset is accessible via:

- configuration application;
- locally on the clock, for more information, refer to **Settings / Reset** (available in the complete installation instructions).

## Menu



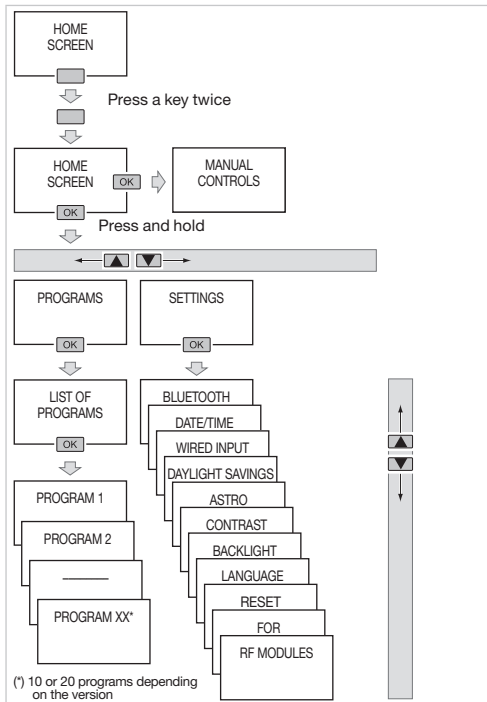
If programming was performed via the configuration application, the period (annual cycle) cannot be changed from the pop-up menu.

From the screen saver, press one of the 4 keys twice to activate the backlight and then switch to the home screen. Press and hold the **OK** key to view the **Programs / Settings** menu.

All programming and settings are based on the following principle:

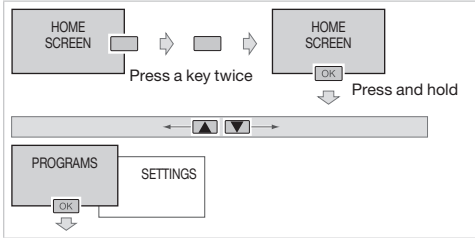
- keys ▲▼ are used to navigate the menus and enter settings;
- the **OK** key is used to confirm.

The ← key can be used to return to the previous selection level at any time.



## Programs

To access the programs:

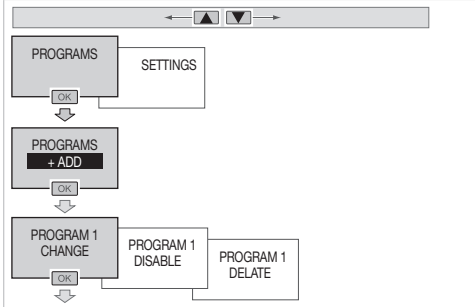


## WRITE / CHANGE PROGRAM

It is possible to create up to 10 or 20 programs (depending on version).

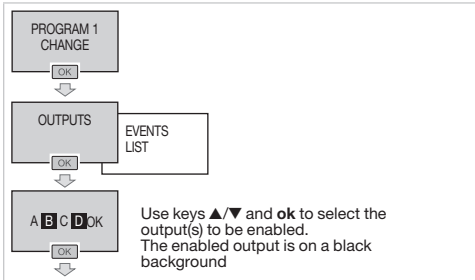
In order to create a program:

- Select the + Add function;
- Change the program.



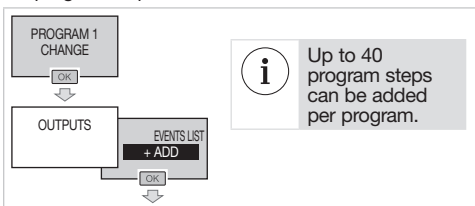
Then define a weekly program. In order to do this:

- Program the selection of the output (or outputs) in question.



Press the **OK** key after selecting OK to go back to the **Change** menu.

- In the list of events, create the first programming step by selecting + Add, then:
  - define the type of action linked to the program step,
  - define the trigger linked to the program step,
  - select the day (or days) of the week linked to the program step.



## KEY LOCK

This function is used to lock the clock keypad. It can be accessed via the configuration application or locally using keys **OK** and ←.

- To enable this function locally, simultaneously press the keys **OK** and ← (> 3 s) until the **🔒** symbol is displayed (2 s).

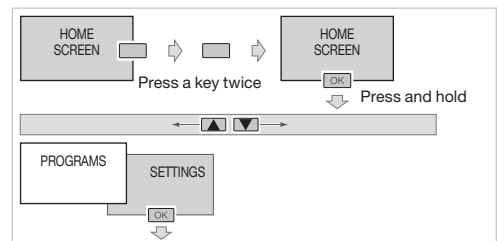
The user only accesses the home screen and views the current program and the status of the outputs.

- To disable this function locally, simultaneously press the keys **OK** and ← (> 3 s) until the **🔒** symbol is displayed (2 s).

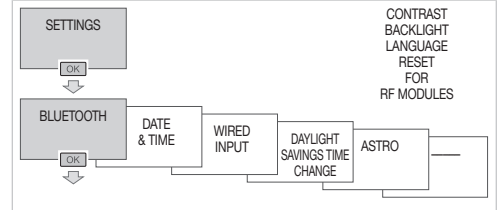
The user can access all screens.

## Settings

To access settings:



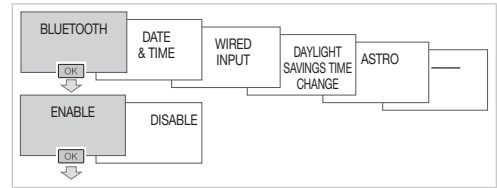
The **Settings** menu provides access to the following settings:



## BLUETOOTH

Bluetooth® activation

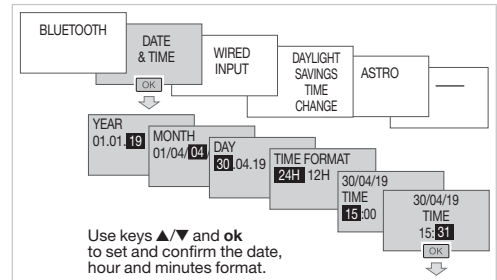
Enable the Bluetooth® function if the setup application is used to program your clock.



Press **OK** to confirm and the ← key to go back to the **Settings** menu.

## DATE-TIME

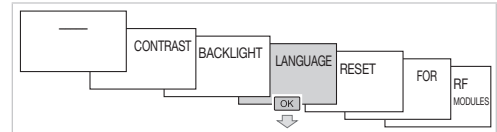
Set time and day



Press **OK** to confirm and go back to the **Settings** menu.

## LANGUAGE

Select the desired language from among the following languages: FRANÇAIS, DEUTSCH, ENGLISH, NEDERLANDS, PORTUGUES, ESPAÑOL, ITALIANA, ΕΛΛΗΝΙΚΗ, SVENSKA.



Press **OK** to confirm the language and go back to the **Settings** menu.

- When a load greater than 10A is used, a 2.5 mm² cable must be used.
- Not suitable for controlling SELV loads.

Hager Controls hereby declares that this EGN200 and EGN400 Time Switch radio equipment complies with the essential requirements and other relevant provisions of Directive 2014/53/EU.

The CE declaration can be viewed at: [www.hager.com](http://www.hager.com)

**How to dispose of this product** (electrical and electronic equipment waste). (Applicable in the countries of the European Union and other European countries with selective collection systems). This symbol on the product or its documentation indicates that it should not be disposed of at the end of its life with other household waste. Since uncontrolled disposal of waste may be harmful to the environment or to human health, please separate it from other types of waste and recycle it responsibly. This allows sustainable reuse of material resources. Individuals may contact the distributor who sold the product or inquire with their city hall about where and how they can dispose of this product so that it is recycled in an environmentally friendly manner. Companies may contact their suppliers and consult the conditions of their sales contract. This product should not be disposed of with other commercial waste.

Usable anywhere in Europe and Switzerland