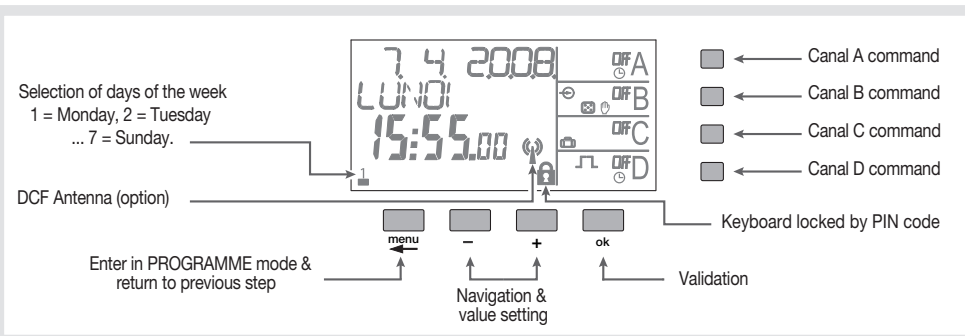# :hager

GB 4 channel programmer
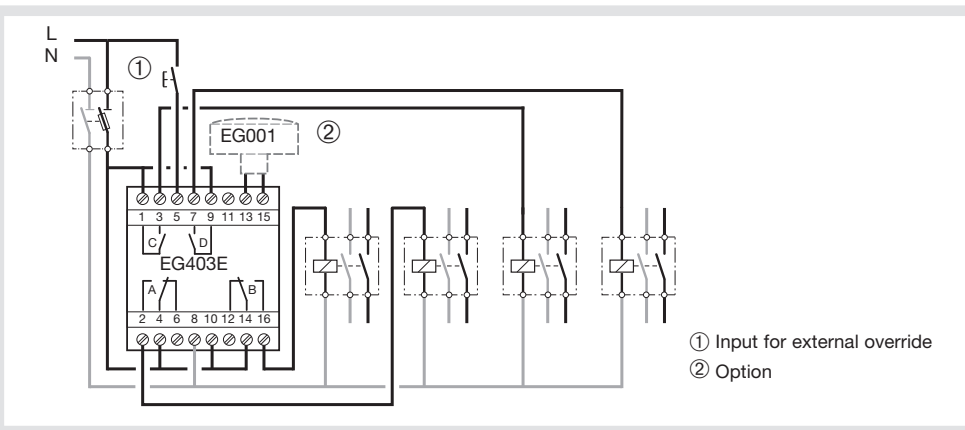weekly cycle with
programming key

User instructions

EG403E

Presentation

- Product delivered with current time and date set.
- Automatic change of summer/winter time.
- Programming key
  - For permanent overrides
  - For program copy or save
- 300 programme steps ; ON, OFF, pulses ⊓ or ⊓⊓.
- Permanent overrides On or Off (☼ permanent light on).
- Temporary overrides On or Off (☼ flashing).
- Overrides (temporary, permanent or time delayed) remote activation possible.
- Simulation of presence ⊠.
- Keyboard lock function 🔒 by PIN number.
- Counter of operating time on every output.
- Programmable with power off.
- Display with backlight.

Product Presentation

Selection of days of the week
1 = Monday, 2 = Tuesday
... 7 = Sunday.

DCF Antenna (option)

Canal A command
Canal B command
Canal C command
Canal D command

Keyboard locked by PIN code

menu — Enter in PROGRAMME mode &
return to previous step

Navigation &
value setting

Validation

Connection diagram

EG001 ②

EG403E

① Input for external override
② Option

Technical specifications

Electrical characteristics

- Supply voltage   230 V +10/-15%
- Frequency   50/60 Hz
- Power consumption   < 2 VA
- Output   2 changeover + 2 NO contacts
- Maximum load
  AC1   μ 10A 250 V~
  Incandescent lighting: 1500 W
  Halogen lighting
  Compensated fluorescent tubes //
  (max. 45 μF)   400 W
  Non compensated fluorescent tubes,
  compensated in series   1000 W
  Compact fluorescent lamps   400 W
- Minimum load
  AC1   100 mA   250 V~
- Galvanic insulation between power supply and
  output   < 4 kV
- Rated impulse voltage   4 kV

Functional characteristics

- Programming capacity   300 steps
- Minimum time between 2 steps   1 minute
- Running accuracy   ± 0,2 sec/ 24h
- Operating reserve lithium battery, total of 5
  years autonomy (unlimited programme backup)
- The product is set into standby state (display
  switched-off) after 1 minute with power off.
  It switches back into automatic mode as soon
  as power is back on or when pressing any key.
- Protection degree   IP 20 / IK 04
- Action type   1B
- Degree of pollution   2
- Software class   A

Environment

- Operating temperature   -10 °C to +50 °C
- Storage temperature   -20 °C to +70 °C
- Temperature for the ball pressure Test
                                     75° to 125°C

Connection by quick-connect terminals

- Flexible   0,75 to 2,5 mm²
- Rigid   0,75 to 2,5 mm²

Standards

60730-1
60730-2-7

Usable in all Europe **C€** and in Switzerland

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

First commissioning

When using for the first time, the following settings must be done:
- select the language
- select the year, month, day
- select the hour and the minutes
- select the automatic change summer/winter.

Press the buttons **+/–** to set the display.
Press OK to validate.

When the settings are finished, the clock goes to automatic mode.

Reinitializing

Pressing simultaneously the **menu**, **–**, **+**, **ok** keys allows you to réinitialize the product.
The program is kept in memory.

Menu

Press the button **menu** to access the programming/ setting mode.

All of the programming and adjustments are based on the following principle:
- the 1st line and/or 2nd line of the display indicate the requested setting,
- the buttons **+/-** allow navigation through the menus and settings,
- the button **ok** allows validation.

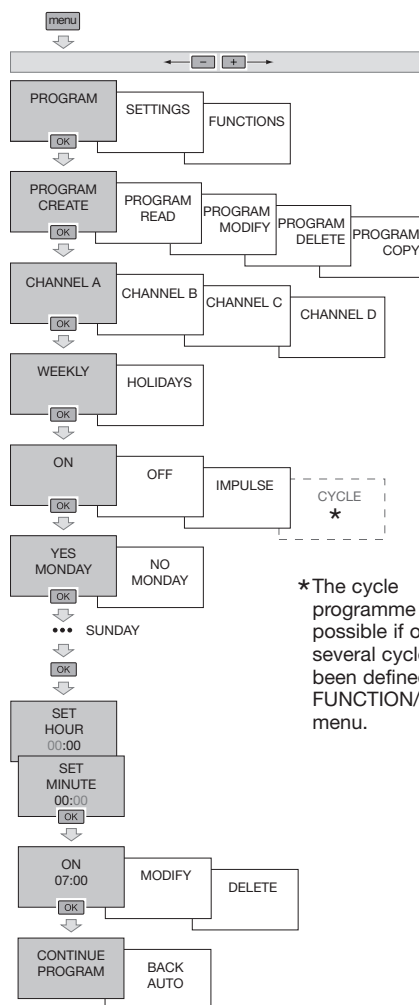Pressing the button menu allows you to access the following settings:
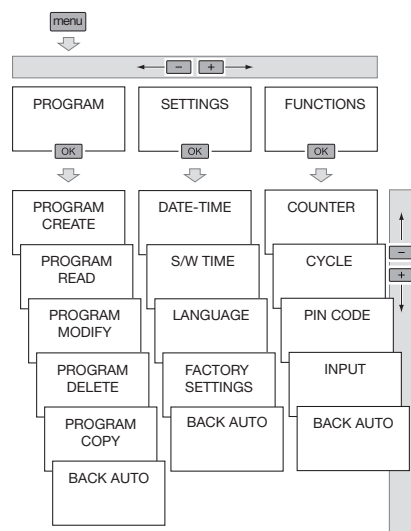
At any time, pressing the button menu allows you to return to the previous choice level.

PROGRAM   prog
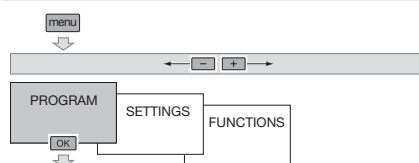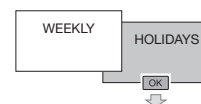

PROGRAM CREATE

Creating the weekly programme:

* The cycle programme is only possible if one or several cycles have been defined in the FUNCTION/CYCLE menu.
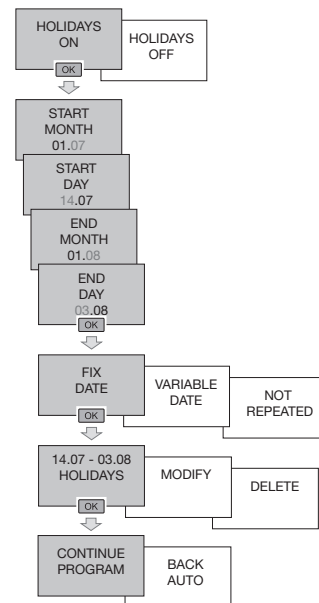

Creating a holiday programme
The Holiday programme allows you to define one period during which the output contact is on ON or OFF.
This programme has the highest priority.


To define your Holiday programme:

Select:
- FIX DATE: if the programme must be repeated every year at the same dates.
- VARIABLE DATE (↔) if the dates must be recalculated every year according to the dates of Easter.
- NOT REPEATED: if the programme is to be activated once only.

Validate by **ok**.

PROGRAMME READ

To visualise a programme
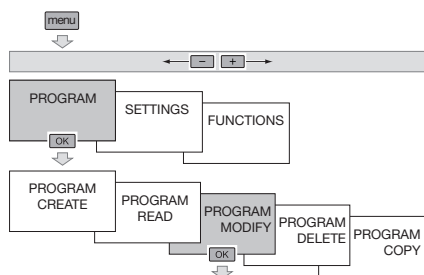To check the steps of the recorded programme without risk of modifying or deleting.
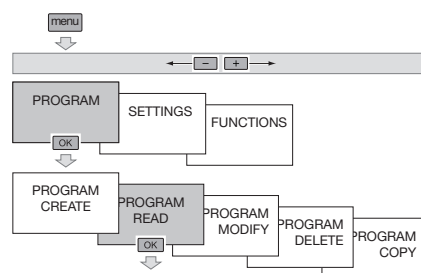
The number of free program steps is displayed.
Press **ok** to validate.
The buttons **+** and **–** allow you to scroll the programme steps.
At the end of the visualisation, press **ok**.

PROGRAMME MODIFY

To modify one or several programme steps.

```
menu
 ↓
 ←  −  +  →
PROGRAM    SETTINGS    FUNCTIONS
  OK
  ↓
PROGRAM    PROGRAM    PROGRAM    PROGRAM    PROGRAM
CREATE     READ       MODIFY     DELETE     COPY
                       OK
                       ↓
```
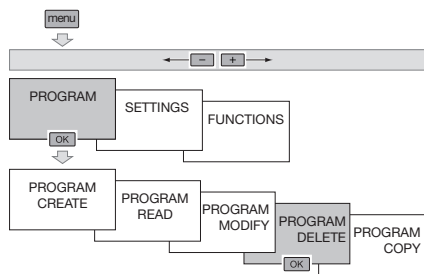
The number of free program steps is displayed.
Press **ok** to validate.
The buttons **+** and **–** allow you to scroll the programme steps.
The button **ok** allows you to select the programme step to be modified.

PROGRAMME DELETE 🗑

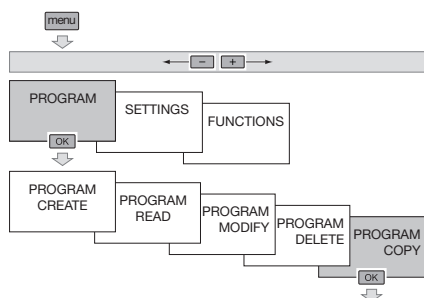The menu delete allows you to erase:
- all of the programme contained in the clock.
- All of the programme on one channels.
- A programme step.

```
menu
 ↓
 ←  −  +  →
PROGRAM    SETTINGS    FUNCTIONS
  OK
  ↓
PROGRAM    PROGRAM    PROGRAM    PROGRAM    PROGRAM
CREATE     READ       MODIFY     DELETE     COPY
                                  OK
                                  ↓
```

Everything deleted must be confirmed by pressing the button **ok**.

PROGRAMME COPY

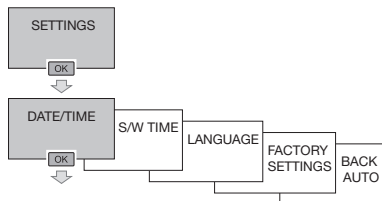The copy function allows you to copy a programme from one channel to another.

```
menu
 ↓
 ←  −  +  →
PROGRAM    SETTINGS    FUNCTIONS
  OK
  ↓
PROGRAM    PROGRAM    PROGRAM    PROGRAM    PROGRAM
CREATE     READ       MODIFY     DELETE     COPY
                                            OK
                                            ↓
```

Select the channel from which you wish to copy the programme.
Select (**+**, **–** then **ok**) the program you wish to copy: WEEKLY, HOLIDAY.
Select the channel into which you wish to paste the programme copied.
Validate by pressing **ok**.

Select CONTINUE, if you wish to copy more programs.
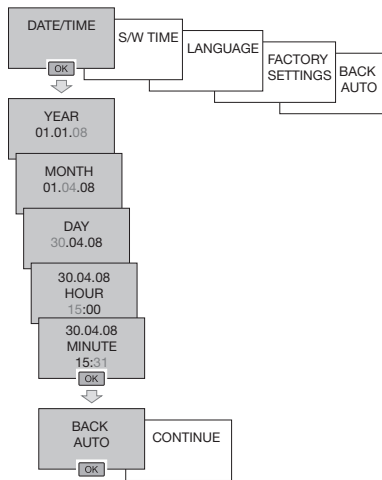Select BACK AUTO to go back to the automatic mode.

SETTINGS 🔧

```
menu
 ↓
 ←  −  +  →
PROGRAM    SETTINGS    FUNCTIONS
             OK
             ↓
```
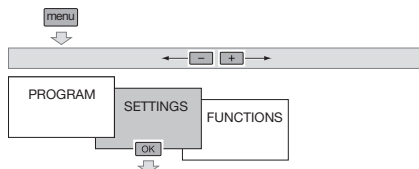
The setting menu allows you to access the following settings:

```
SETTINGS
  OK
  ↓
DATE/TIME    S/W TIME    LANGUAGE    FACTORY    BACK
  OK                                 SETTINGS   AUTO
  ↓
```

DATE-H

Time and day setting

```
DATE/TIME    S/W TIME    LANGUAGE    FACTORY    BACK
  OK                                 SETTINGS   AUTO
  ↓
YEAR
01.01.08
↓
MONTH
01.04.08
↓
DAY
30.04.08
↓
30.04.08
HOUR
15:00
↓
30.04.08
MINUTE
15:31
  OK
  ↓
BACK        CONTINUE
AUTO
  OK
```
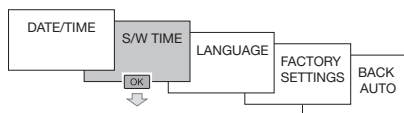
Press **ok** to go back to automatic mode.
For other settings (automatic changes summer/winter, language, reset), press **+** and select CONTINUE.

SUMMER/WINTER

```
DATE/TIME    S/W TIME    LANGUAGE    FACTORY    BACK
                           SETTINGS   AUTO
               OK
               ↓
```

Select the type of summer/winter change required and then validate by **ok**.

Types available:

Type	Start of Summer time	Start of Winter time	Zone of application
EURO* SUMMER/ WINTER	Last Sunday in March	Last Sunday in October	European Union
USA SUMMER/ WINTER	Second Sunday of March	First Sunday in November	North America
AUSTRALIA SUMMER/ WINTER	First Sunday in October	First Sunday in April	Australia
USER SUMMER/ WINTER	Date freely programmed	Date freely programmed	
NO SUMMER/ WINTER	No change	No change	

* default type
When the USER type is chosen:
Define the month, then the week of the change of summer time.
Define the month, then the week of the change of winter time.
The change always happens between 2 and 3 am.
The change always happens on Sunday.

LANGUAGE

```
SETTINGS    FUNCTIONS
  OK
  ↓
DATE/TIME    S/W TIME    LANGUAGE    FACTORY    BACK
                           OK        SETTINGS   AUTO
                           ↓
```
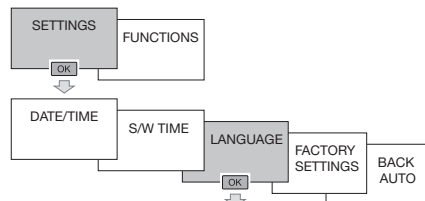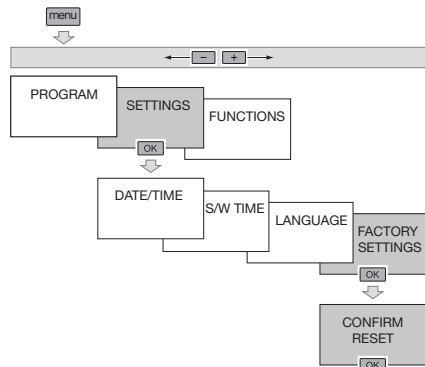
Select the language required amongst the following : FRANÇAIS, DEUTSCH, **ENGLISH**, NEDERLANDS, PORTUGUES, ESPANOL, ITALIANA.
Validate by **ok**.

FACTORY SETTINGS

Reset to zero
To reset the product to the manufacturer's configuration, that is to say, erase all of the programme as well as the settings made:

```
menu
 ↓
 ←  −  +  →
PROGRAM    SETTINGS    FUNCTIONS
             OK
             ↓
DATE/TIME    S/W TIME    LANGUAGE    FACTORY
                                     SETTINGS
                                       OK
                                       ↓
                                     CONFIRM
                                     RESET
                                       OK
```
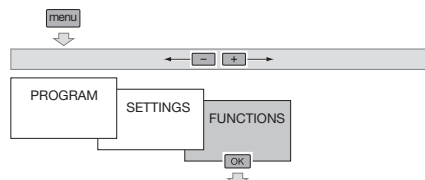
Confirm the complete reset by **ok**.

At the end of the reset to zero, as for the first commissioning, the following settings must be done:
- language
- selection of date and time
- Automatic summer/winter change.

FUNCTIONS ◈

```
menu
 ↓
 ←  −  +  →
PROGRAM    SETTINGS    FUNCTIONS
                          OK
                          ↓
```

The functions menu allows you to access the following functions and information:

```
FUNCTIONS
  OK
  ↓
COUNTER    CYCLES    PIN-CODE    INPUT    BACK
                                          AUTO
```
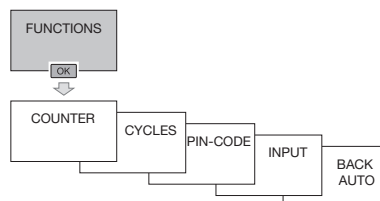
COUNTER

The "Counter" menu allows you to visualise the number operating hours (position ON) for every output, as well as the number of time changes since commissioning.

The counter also allows you to visualise the number of operating hours of the clock (product connected to mains supply).

The counters cannot be reset to zero (even after activating the function factory settings).

Press the button **menu**.
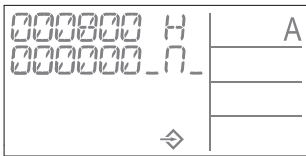Using the buttons **+** or **–**, then **ok**, select the FUNCTIONS menu, then COUNTER.
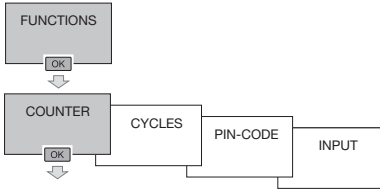
The first line indicates the number of operating hours of the output.
The second line indicates the number of time changes (ON then OFF) done by the output.
The buttons **+** or **–** allow you to scroll the various indicators.
Press the button **ok** to exit this menu.

CYCLE

In order to create a cycle programme you must have previously defined the operating cycle(s).
A cycle is defined by x h, x min, x sec ON then x h, x min, x sec OFF.

This menu allows you to define, modify or deactivate up to 4 different cycles.
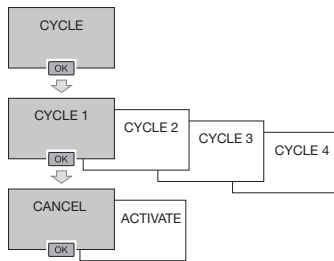
During the creation of a programme step, the active cycles appear in the choice of the state of output.
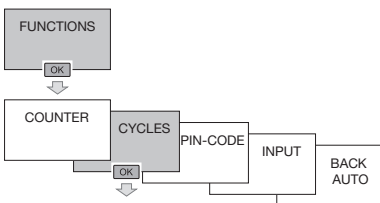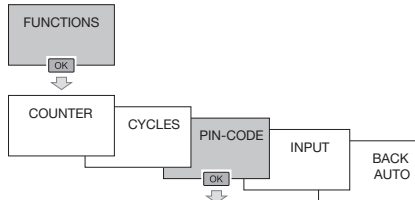

To create or modify a cycle:
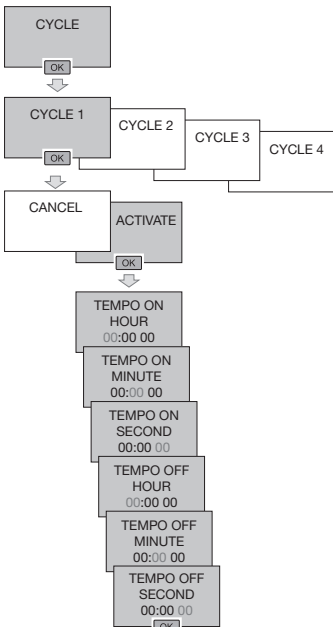
To deactivate a cycle:

Deactivating a cycle also deactivates all the programme steps concerned.

PIN-CODE

The menu PIN CODE allows you to lock the clock keyboard.

When the PIN number is active:
The symbol 🔒 flashes to indicate that the function is activated.
After 1 minute without action on the product, the keyboard is locked.
The symbol 🔒 indicates that the keyboard is locked.
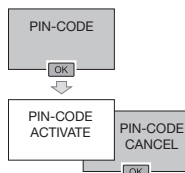You must enter the PIN number to reactivate the keyboard.

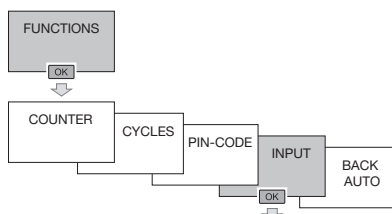**To activate the keyboard lock by PIN code (or modify the PIN code)**
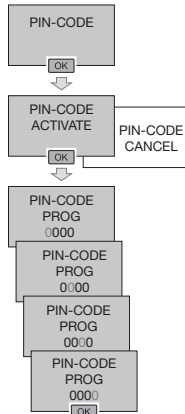
With the buttons **+** or **–**, select ACTIVATE. Validate by **ok**.

With the buttons **+** or **–**, enter or modify the 4 figures of the PIN number. Validate by **ok**.

To deactivate the keyboard lock by PIN NUMBER

INPUT

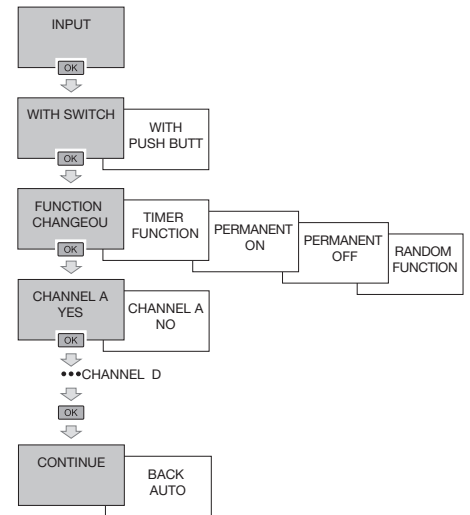**Override input**
This menu allows you to define:
• The product which operates the input (push button or switch).
• The function activated:
  - inversion of the state of output contact
  - time delay ON output activated for an adjustable time
  - Permanent OFF

- Permanent ON
- Random function
• The channel (or channels) concerned by the override input.

In automatic mode, the symbol ⊖ indicates that an override coming from the override entry is active.

Key 🔑

As soon as the key is present on the switch PROG KEY appears 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 / Save:
The key allows you to save a program contained in the time switch. You can also copy the contents of the key to the clock.
1. Introduce the key PROG KEY appears on the screen. Press **ok**.
2. Using **+** or **–**, select:
  save on key: to save the programme contained in the product,
  Record in clock: to load the key programme into the time switch,
  apply key prog: to execute the programme contained in the key without deleting the one present in the device.
  Key readout: to check the programme contained in the key.
3. Validate your choice by **ok**.

An error message may appear on the screen:
Check the type of key.

The error message remains on display as long as the key is present, but the time switch programme is the one which is executed

Overrides
Random operation ✪

By successively pressing the channel command button.
If the output state is **On** :
1st press : temporary override. **Off** and ✋ flashing. Return to automatic mode will take place at the next programme step.
2nd press : permanent override. **Off** and ✋ are fixed. This override must be cancelled manually.
3rd press : forçage permanent. **On** and ✋ sare fixed. This override must be cancelled manually.
4th press : Random operation. For the simulation of presence, ✪ as well as the state of output are displayed. Must be cancelled manually.
In this case the programme steps are staggered at random in a slot of ± 59 min.
5th press : return to automatic mode. The state of output as well as the symbol ⊙ are displayed.