90 TMR

(EN)

GWD6788
GWD6789

Digital time/astronomical switch

GWD6788   GWD6789

	LED	MAX. 24V
2000W	200W	1500W
2000W	400W	600W

12mm

≤6mm²

0.8 Nm
PH1
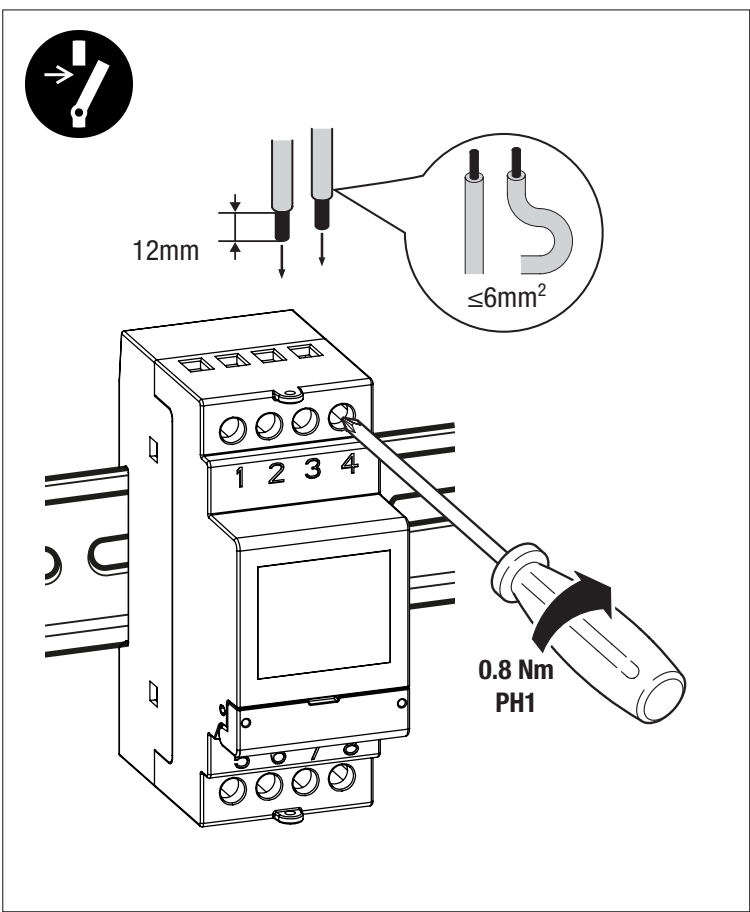
The digital clocks of the 90 TMR range are electronic devices for managing the time of the electric circuits. The programming can be hourly (daily or weekly sequences) or astronomical. GWD6788 is fitted with one relay (1 channel) whereas GWD6789 has two relays (2 independent channels) (Fig.A). Each channel can be associated with different programming (hourly or astronomical). The clocks have a Bluetooth interface, so they can be connected to mobile devices (smartphones or tablets). Thanks to the app (which can be freely downloaded from AppStore and Google Play), you can define the programming and settings directly on your smartphone, then transfer all the data to the clock. And the reverse procedure is also possible - you can copy the programming of a clock onto your mobile device.

The back-up battery ensures that the settings are maintained even in the event of a blackout. It can be replaced by removing the cover on the back of the clock.

The digital clocks of the 90 TMR range are electronic devices that carry out 1B type actions, designed to work in environments with category III overvoltage and pollution level 2 (in accordance with Standard EN 60730-1).

Code	Description
GWD6788	1-channel time/astronomical switch with Bluetooth
GWD6789	2-channel time/astronomical switch with Bluetooth

SAFETY WARNINGS

Respect the following regulations when installing and using the product:
1) The product must be installed by a qualified person, scrupulously respecting the connection diagrams shown in this manual
2) After installation, it must be impossible to access the connection terminals without using specific tools
3) Before accessing the connection terminals, make sure the conductors aren't live
4) Don't supply power to the product, or connect it, if any part is damaged
5) The product must be installed and started up in accordance with current legislation regarding electrical systems
6) Do not use the product for any purposes other than those indicated
7) A protection device must be installed in the electrical system upstream of the product, to protect against overcurrents
8) The product can be used in places with measurement category III and pollution level 2 (in accordance with Standard CEI EN 60730-1)

TECHNICAL CHARACTERISTICS

- Power supply: 230V AC (-15% ÷ +10%) 50/60 Hz
- Absorption:
  - GWD6788: 1W (3.5 VA)
  - GWD6789: 1.5W (5.5 VA)
- Lithium back-up battery, 3V, type CR2032 (replaceable)
- Output:
  - GWD6788: 1 momentary relay (changeover) with maximum switchable load 16A / 250V
  - GWD6789: 1 momentary relays (changeover) with maximum switchable load 16A / 250V
- LCD display with backlighting (activated via the mains supply)
- Bluetooth BLE 4.1 communication interface (activated via the mains supply)
- Programs that can be stored:
  - GWD6788: 120 events
  - GWD6789: 120 events (divided between the 2 channels)
- Type of action: 1B
- Operating temperature: -20 to 50°C
- Operating humidity: 20 - 90% non-condensing
- Storage temperature: -10 to +70°C
- Operating frequency: 2400 - 2483.5 MHz
- Maximum wireless power transmitted: 4 dBm
- Container: 2 DIN modules
- Degree of protection: IP20
- Insulation: reinforced between accessible parts (front) and all other terminals

DESCRIPTION OF THE DISPLAY AND KEYPAD (Fig.B)

1) General indications
2) Time indication
3) Indication of channel 1 / channel 2 status
   ᴼᴺ/ᴼꜰꜰ channel status
   🔒 switching locked
   ⏱ random switching active
   ↗ holiday program active
   Ω impulse program active
   ∪ manual program active
4) Day of the week (DAY)
5) Activate display
   Access menu
   ESC (1 level back)
6) Button key C1: decreases the data item/menu back/channel 1 switching/channel 1 lock
   Button key C2: increases the data item/menu forward/channel 2 switching/channel 2 lock
7) Confirm selection
8) Reset hardware

Button key **OK** + **C1** (3 sec): random switching of channel 1
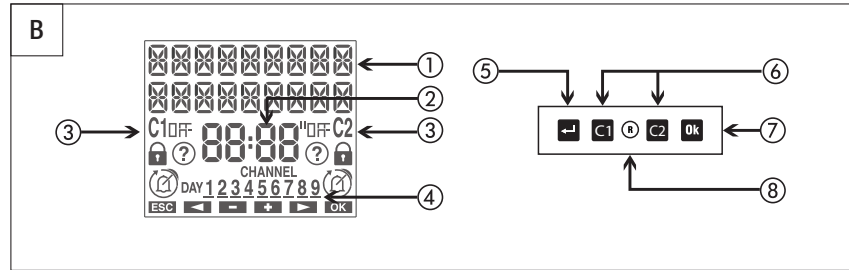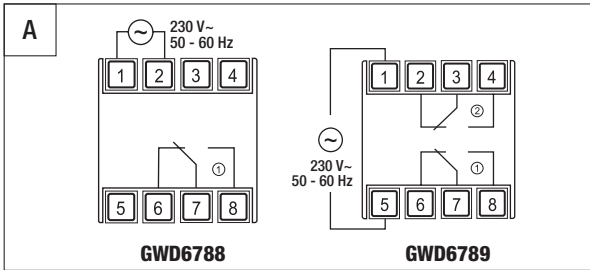Button key **OK** + **C2** (3 sec): random switching of channel 2

INITIAL START-UP

- When you take the product out of its pack, it will be switched off. Press the button key and wait a moment until the display is activated
- The set language is Italian. To change it, hold the button key for at least 3 seconds. Choose from: Italian, English, Spanish, French or German, then confirm with OK
- Make the connections according to the diagrams (Fig.A) in this manual
- Power the device; the backlighting will switch on permanently.
- The back-up battery allows the device to start up with the date and time already updated. The other settings are:

Date:	- format: DD/MM/YY - 1st day of the week: Monday
Astronomical coordinates:	- country: Italy - city: Agrigento - latitude: north (37° 19' 12") - longitude: east (13° 34' 12")
Daylight-saving time change: active	- daylight-saving time start: last Sunday of March, 2:00am - daylight-saving time end: last Sunday of October, 3:00am
Time correction:	- sunrise: +0:00 - sunset: +0:00
Time zone:	UTC +1:00
Random switching:	- minimum: 1 minute - maximum: 5 minutes
PIN protection:	deactivated (---)
Bluetooth:	active
Bluetooth password:	123456

HOMEPAGE (or main page)

info messages
date
status of relay 2
time
day of the week
status of relay 1

Info messages

- day of the week
- product ID code and serial number
- battery status (only if run down)
- NO SUPPLY *

* Only if the product isn't powered from the mains. In this case, the backlighting isn't active and the relay is OFF.

NOTE: the Bluetooth interface is only active when the device is showing the homepage (main page), and only if it's powered from the mains. These conditions must therefore be respected when you want to transfer programs to and from the clock.

- Press the
  button key to access the device menus
  C1 and C2 to change the status of channel 1 and channel 2 (only on GWD6789)
  OK to view the calculated sunrise and sunset times **

**The times shown take into account any correction values entered. If the display shows ⁻⁻ō⁻⁻, this means the calculated sunrise time is later than the sunset time.
If the display shows ⁻o⁻, this means the calculated sunrise time is before 00:00, or the calculated sunset time is later than 23:59

Access the store of your device and install and launch the free TimerOn – Gewiss app.

1) When launched, the app will show the list of associated devices. To associate a new device, press the "+".

2) All the Bluetooth devices detected in the vicinity will be shown; choose the required device from the list.

NOTE: each device is identified by the product code (e.g. GWD6788) and serial number (e.g. 00000020). This information can be seen on the homepage of the product.

ATTENTION: make sure the product is powered from the mains and that the display shows the main page (homepage). Otherwise, the Bluetooth interface won't be active and the device won't be visible.

3) Enter the password to link the product with your device (unless it has been modified, the password is 123456).

4) The product will be added to the list of associated devices. Scroll the list of associated devices and select the required product.

NOTE: communication between the app and the time switch is device-device. This means that, if there are several products, the app can only communicate with one at a time. The product connected to the app in that moment will show the * symbol on the display, immediately after the serial number.

5) The app shows the homepage of the selected product. From this page, you can:
   a. Create new programs which will then be copied in the product
   b. Modify the product settings
   c. View the parameters and associate an alias (a name identifying the clock, such as "Timer Belluno") with the product.
   d. Manually command the relay output(s) and activate the random switching function

DESCRIPTION OF THE MENUS
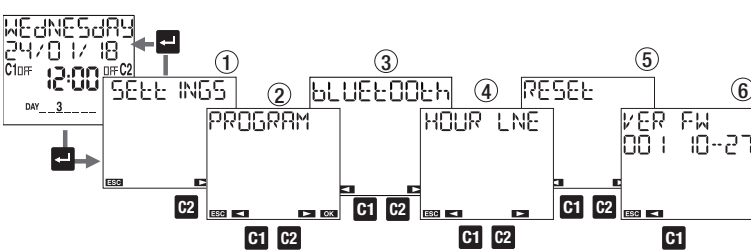
1) The **"Settings"** menu is used to modify: the language, date, time, daylight-saving time, astronomical coordinates, minimum and maximum duration of the gap between two random switchovers, the keypad locking PIN.
2) The **"Programming"** menu is used to set a new program or check, copy, modify or delete an existing program.
3) The **"Bluetooth"** menu is used to configure the Bluetooth communication interface.
4) The **"Hour-counter"** menu is used to check the operating times (relay ON) of the loads connected to the relays.
5) The **"Reset"** menu is used to reset settings, programming sequences and the operating hour-counter.
6) The **"Ver FW"** menu is used to check the firmware version installed on the device.

SETTINGS MENU

The "Settings" menu is used to view - and modify if necessary - the general product operating settings:
1) language
2) date
3) time
4) automatic daylight-saving time change
5) position (astronomical coordinates)
6) duration of the gap between two random switchovers
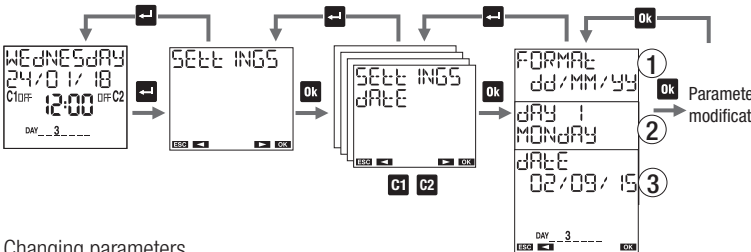7) PIN for button key protection
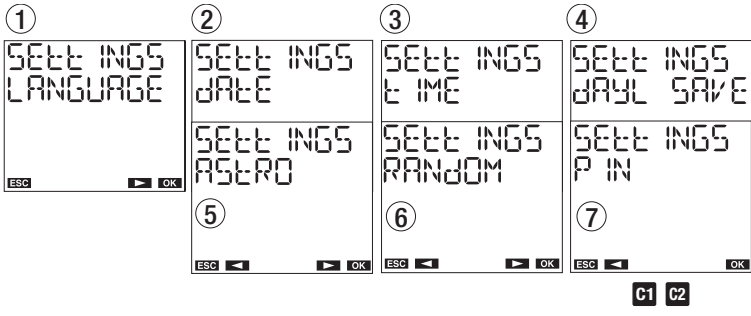
LANGUAGE SETTING MENU
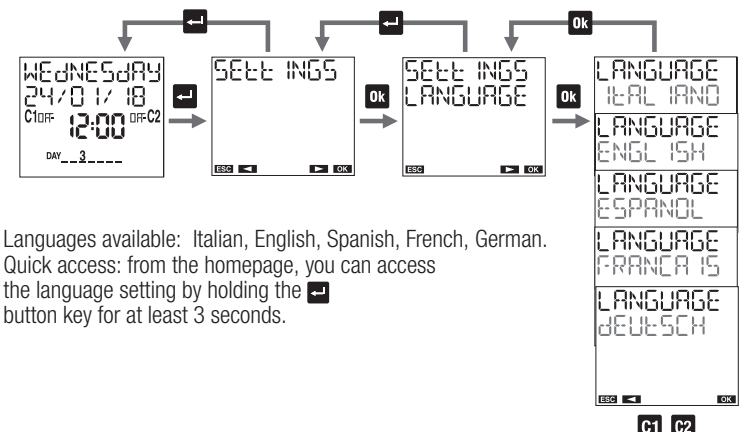
Languages available: Italian, English, Spanish, French, German.
Quick access: from the homepage, you can access the language setting by holding the
button key for at least 3 seconds.

DATE SETTING MENU

Changing parameters
1) Possible date formats: day-month-year (dd/MM/YY), year-month-day (YY/MM/dd), month-day-year (MM/dd/YY).

---

2) Choose which, by convention, is the first day of the week. For instance, the first day of the week in Italy is intended as Monday, whereas in the UK it's Sunday.
3) Enter the date: day, month, year.

## TIME SETTING MENU

Parameters modification
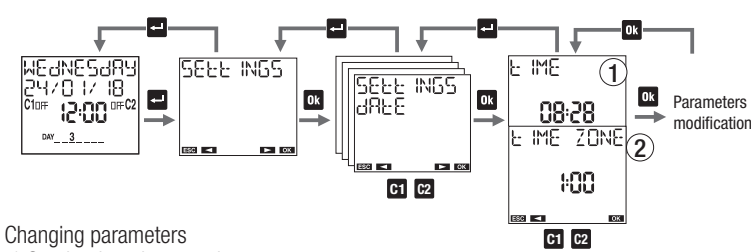
Changing parameters
1) Set the time: hours, minutes.
2) Set the time zone. Possible values:-14:00 to +14:00, in steps of 15 minutes. For Italy, set +1:00.

MENU FOR SETTING DAYLIGHT-SAVING TIME/WINTER TIME CHANGE

The change from daylight-saving time to winter time and vice versa can be made automatically. In this case, the product:
- increases the time by one hour when changing from winter time to daylight-saving time
- decreases the time by one hour when changing from daylight-saving time to winter time

For every change, you must specify:
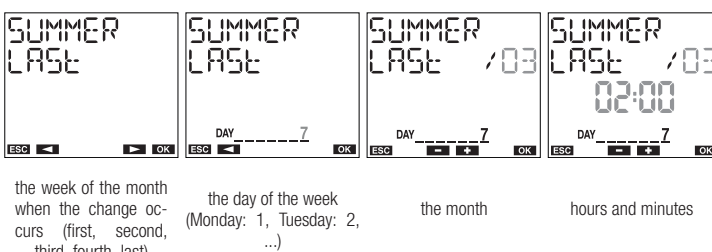
the week of the month when the change occurs (first, second, third, fourth, last)
the day of the week (Monday: 1, Tuesday: 2, ...)
the month
hours and minutes

Daylight-saving time begins in Italy on the last (LASt) Sunday (7) in March (03) at 0200 and ends on the last (LASt) Sunday (7) of October (10) at 03:00.

Parameters modification
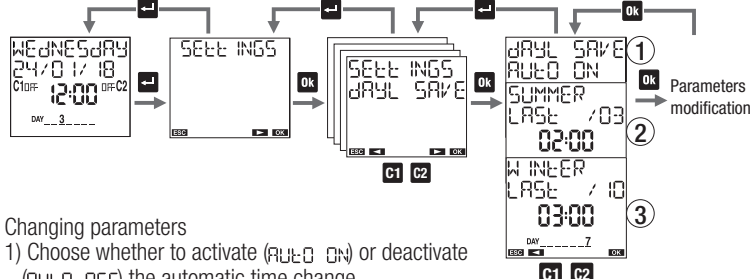
Changing parameters
1) Choose whether to activate (AULO ON) or deactivate (AULO OFF) the automatic time change.
2) Set the date and time of the change from winter to daylight-saving time.
3) Set the date and time of the change from daylight-saving to winter time.

MENU FOR SETTING THE ASTRONOMICAL COORDINATES

If you set the geographical coordinates of the place of installation, the product can calculate the sunrise and sunset times for each day of the year. To simplify this procedure, the coordinates of the places listed below are already stored in the product; if your location is one of these, you can select it from menu 1. Otherwise, enter the latitude and longitude coordinates (menus 2 and 3).
NOTE: the display will show "----------" at point 1 if the coordinates have been entered.

Places memorised in the product:
- Italy: all the provinces
- United Kingdom: Cardiff, Belfast, Edinburgh, London
- Spain: Barcelona, Madrid, Seville, Valencia
- France: Lyons, Marseille, Paris, Toulouse
- Germany: Berlin, Hamburg, Cologne, Munich

The correction of the sunrise and sunset times is handy in the case of applications where lights are switched on in certain areas. There is the possibility, in fact, that the presence of elements such as mountains may affect the real sunrise/sunset times, making it necessary to move the calculated times forwards or backwards by a few minutes.

Twilight is the period just before sunrise or just after sunset, when the atmosphere diffuses the sunlight and thereby produces a faint light. In these conditions, objects can clearly be distinguished and outdoor tasks can be performed without the need for additional lighting. For this reason, in certain applications it may be more useful to take (civil) twilight as the reference for switch-on/switch-off times, rather than sunrise and sunset. You can choose whether to activate and deactivate loads on the basis of sunrise/sunset times or civil twilight time. The correction of the calculated times can be applied to the twilight times as well. To view the calculated switch-on (sunset) and switch-off (sunrise) time, press the OK button key on the homepage.

Parameters modification
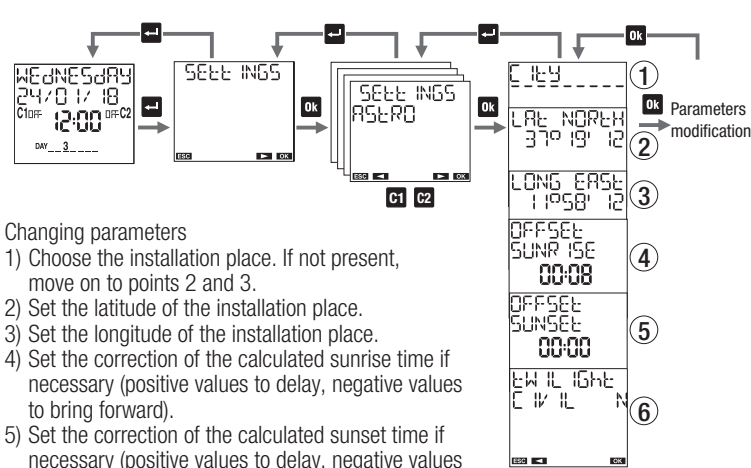
Changing parameters
1) Choose the installation place. If not present, move on to points 2 and 3.
2) Set the latitude of the installation place.
3) Set the longitude of the installation place.
4) Set the correction of the calculated sunrise time if necessary (positive values to delay, negative values to bring forward).
5) Set the correction of the calculated sunset time if necessary (positive values to delay, negative values to bring forward).
6) Choose civil twilight (CIVIL Y) as the switchover time, in place of the sunrise/sunset times (CIVIL N).

MENU FOR SETTING RANDOM SWITCHING

Parameters modification
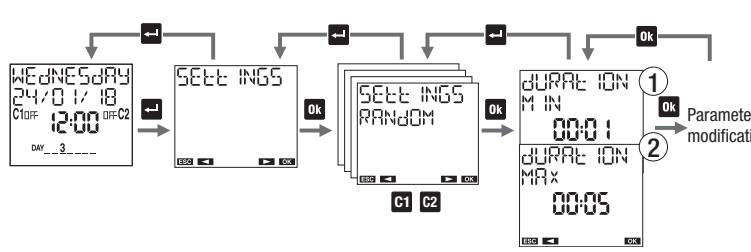
The "random switching ⏱" function (activated using the combination of button keys described in "Description of the display and keypad") allows the relative channel to switch over automatically and at random time intervals.
You can use this menu to define the minimum and maximum duration of the time gap between two random switchovers. With the factory setting, the minimum is 1 minute, the maximum 5 minutes.

Change parameters
1) Set the minimum duration (a value between 1 minute and the maximum duration).
2) Set the maximum duration (a value between the minimum duration and 23.59 hours).
NOTE: if the minimum and maximum duration values are the same, the switchover actions will take place at fixed time intervals.

MENU FOR SETTING THE PROTECTION PIN
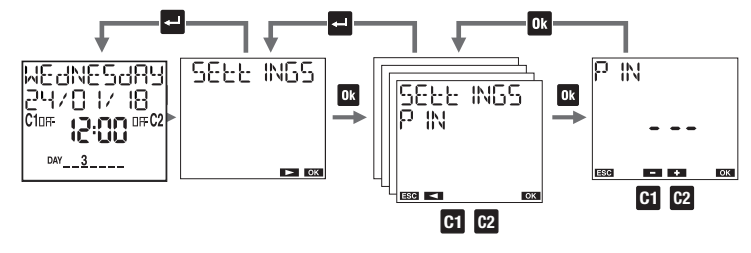
The protection code (PIN) allows you to lock the keypad and thereby prevent any modifications by unauthorised persons. When PIN protection is active, press any button key to enter the PIN: the keypad will be released but will lock again automatically if 3 minutes go by without any button key being pressed.

To activate protection with the PIN:
- set a value between 000 and 999
To deactivate protection with the PIN:
- set "---" (you can find it before 000 or after 999)

NOTE: if you forget the PIN code, a hardware reset is needed in order to release the product (see the RESET paragraph).

PROGRAM MENU

The "program" menu is used to:
1) create a new program
2) check the programs created
3) modify or delete a program created
4) copy all the programs of channel 1 onto channel 2 and vice versa (only for GWD6789)
5) delete all the programs of a channel
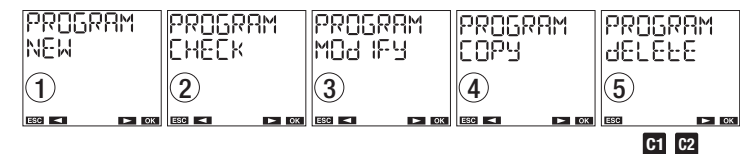
Types of program

- ON/OFF program: consisting of a relay switchover to ON, followed by a relay switchover to OFF. This program may follow a daily pattern (the same every day), or a weekly one (the same every week).
- ON IMPULSE program: the relay switches to ON for a maximum of 59 seconds. This program may follow a daily pattern (the same every day), or a weekly one (the same every week).
- OFF IMPULSE program: the relay switches to OFF for a maximum of 59 seconds. This program may follow a daily pattern (the same every day), or a weekly one (the same every week).
- HOLIDAY program: a period of time defined by a start moment and an end moment, within which all the programmed switchovers (of that channel) are disabled. The relay remains in the OFF position (holiday OFF) or in the ON position (holiday ON).

Types of channel

- TIME channel: runs time-type programs: ON/OFF, ON impulse, OFF impulse, holiday
- ASTRONOMICAL channel: runs astronomical-type programs included in the time gap defined by sunset and sunrise*: ON/OFF, ON impulse, OFF impulse, holiday, night-time programs. ON switchovers set before sunset are performed at sunset and OFF switchovers set after sunrise are performed at sunrise (barring certain night-time programs that can be switched on or off during the day).

* The sunrise and sunset times are calculated automatically by the product on the basis of the geographical coordinates set during installation. The civil twilight times can be used in place of the sunrise and sunset times.

Important: ON and OFF impulses can't both be present at the same time on a single channel (if there is already an ON impulse, you can't save an OFF impulse, and vice versa).
Important: holiday ON programs and holiday OFF programs can't both be present at the same time on a single channel (if there is already a holiday ON program, you can't save a holiday OFF program, and vice versa).
Important: a single channel can be either time or astronomical, but it can't simultaneously be both. You can't save astronomical-type programs on a channel that already contains time-type programs, and vice versa. The message ERROR 11 (astronomical program on time channel) or ERROR 12 (time program on astronomical channel) will be displayed. In this case, you must delete the programs saved on that channel in order to proceed.

Program priority

Program priority defines how the time switch acts if programs with different periods are being run in the same moment (1 indicates higher priority).

| Program	Date	Yearly	Monthly	Weekly	Daily
Holiday		1			
Night-time				2	
Impulse				3	
On/Off				4	5

Program priority on/off

If one channel contains on/off programs with different periods (daily or weekly), to be run on the same day, only the higher priority program will be run.

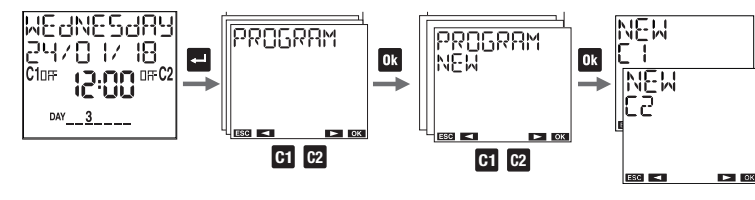Daily program
Weekly program
Carried out program
S M T W T F S
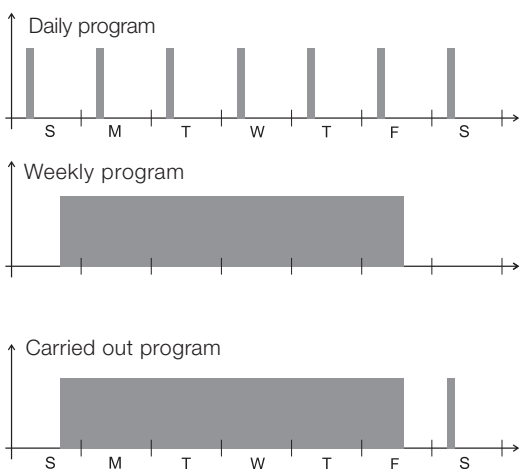
The example shows that the daily event of Monday isn't run because the start of a weekly program is set for the same day (even if the daily program for Monday starts and ends before the start of the weekly program).
On the other hand, the daily program for Sunday is run because it's the only one set for that day.

Holiday program

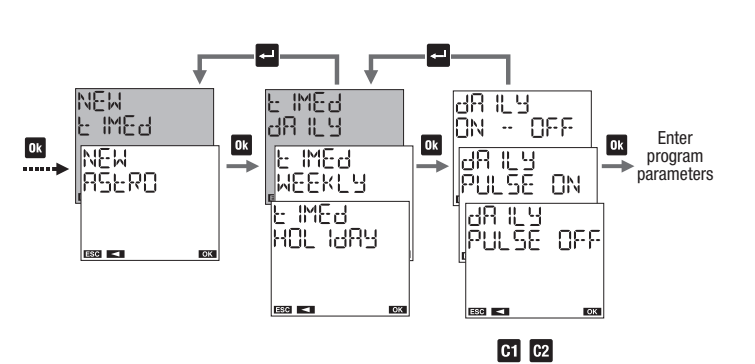The holiday program starts and ends at exactly the times specified.

Daily program
Weekly program
Carried out program
S M T W T F S
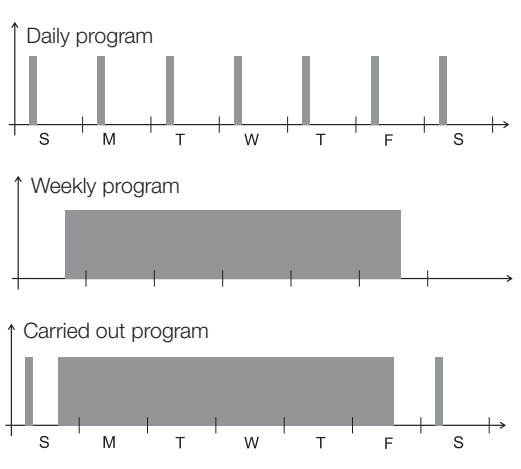
PROGRAM MENU: NEW

1) Choose the channel to be programmed (only for GWD6789)

Program menu: new daily time

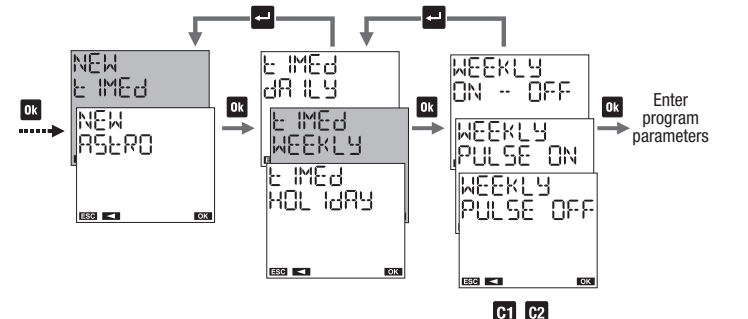Enter program parameters

Program parameters
- on/off: on time and off time
- ON impulse: time and duration of the impulse (max 59 seconds)
- OFF impulse: time and duration of the impulse (max 59 seconds)

Program menu: new weekly time

Program parameters
- on/off: day(s) and time for ON, day(s) and time for OFF
- ON impulse: day(s) and time of the impulse, and duration (max 59 seconds)
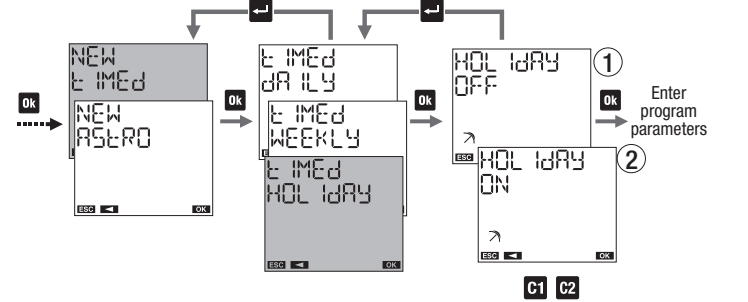- OFF impulse: day(s) and time of the impulse, and duration (max 59 seconds)

How to select the days
Scroll the days of the week, from 1 to 7:
- press C2 to move on to the next day without selecting the current one
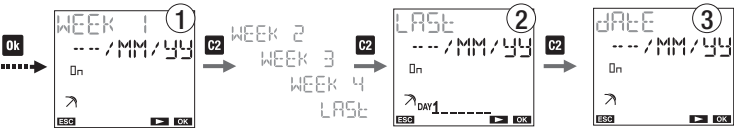- press OK to select/deselect the current day and move on to the next one

Program menu: new holiday time

1) HOLIDAY OFF: the relay remains OFF from the start to the end of the holiday program.
2) HOLIDAY ON: the relay remains ON from the start to the end of the holiday program.

Program parameters
- program start
- program end

How to select the day(s) in a holiday program

1) To set the program:
- in the first, second, third, fourth or last week of the month on the day(s) (Monday, ...) of the week just specified.
- of the month specified (MM for every month)
- of the year specified (YY for every year)

NOTE: in this case, the holiday program must begin and end on the same day. Otherwise, ERROR 010 will be displayed.

2) To set the program for the last day:
--/MM/YY of every month of the year
--/YY/YY of YY (the month specified), every year
--/MM/ZZ of every month of ZZ (the year specified)
--/YY/ZZ of YY (the month specified) of ZZ (the year specified)

3) To set the program for XXday (1,2,3...):
XX/MM/YY of every month of the year
XX/YY/YY of YY (the month specified), every year
XX/MM/ZZ of every month of ZZ (the year specified)
XX/YY/ZZ of YY (the month specified) of ZZ (the year specified)

Program menu: new night-time astronomical
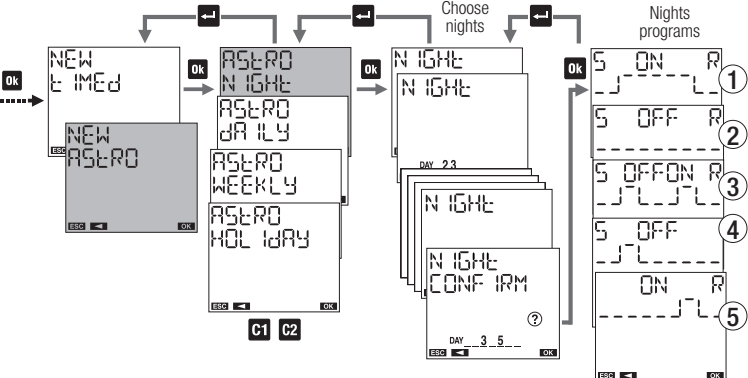
How to select the nights
Scroll the nights of the week, from the first (1-2) to the last (7-1):
- press C2 to move on to the next night without selecting the current one
- press OK to select/deselect the current night and move on to the next one


How to interpret the selection
If the night between days A and B is selected, day A is lit up and underlined whereas day B is lit up but not underlined.

Selection examples:
DAY 1 2 3 4 5 Nights selected: between days 1 and 2, between days 2 and 3, between days 3 and 4, between days 4 and 5
DAY 1 2 3 4 5 Nights selected: between days 1 and 2, between days 2 and 3, between days 4 and 5
DAY 1 2 3 4 7 Nights selected: between days 1 and 2, between days 3 and 4, between days 7 and 1

Night-time programs
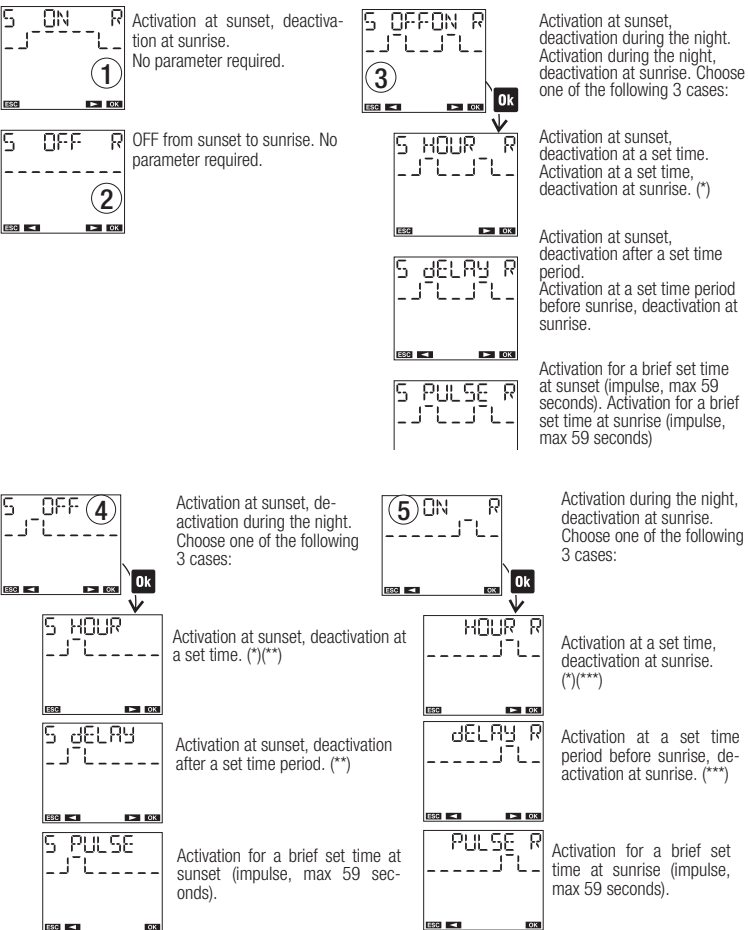
* If the switch-off time is before sunset, the switchover isn't made. If the switch-on time is later than sunrise, the switchover isn't made.
** The ON time lasts for the entire period set (even if the switch-off time is later than sunrise).
*** Switch-on is before the start of the entire period set (even if the switch-on time is before sunset).

Program menu: new daily astronomical
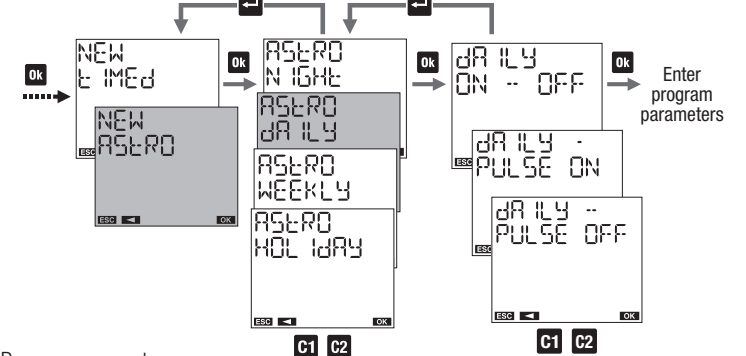
Program parameters
- on/off: on time and off time
- ON impulse: time and duration of the impulse (max 59 seconds)
- OFF impulse: time and duration of the impulse (max 59 seconds)
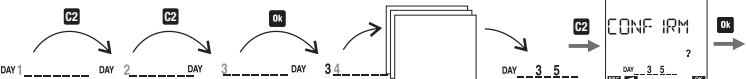
Program menu: new weekly astronomical
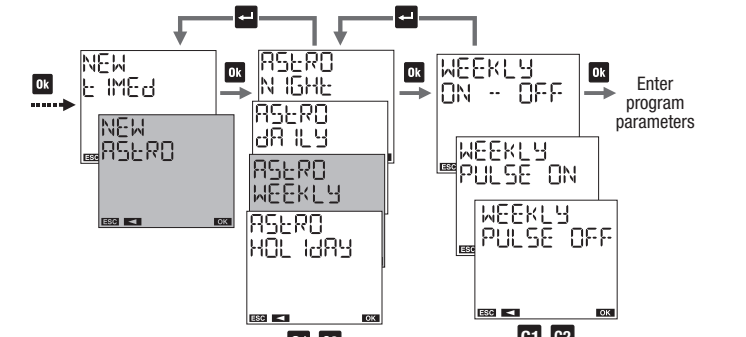
Program parameters
- on/off: day(s) and time for ON, day(s) and time for OFF
- ON impulse: day(s) and time of the impulse, and duration (max 59 seconds)
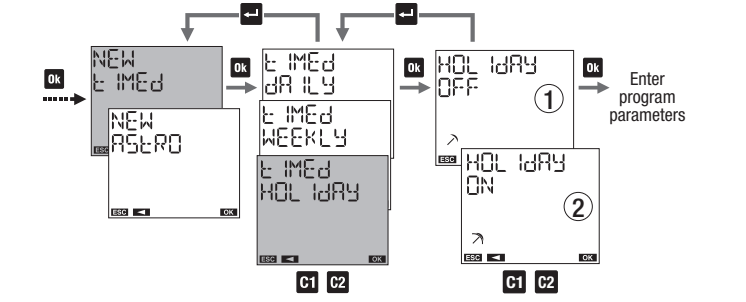- OFF impulse: day(s) and time of the impulse, and duration (max 59 seconds)

How to select the days
Scroll the days of the week, from 1 to 7:
- press C2 to move on to the next day without selecting the current one
- press OK to select/deselect the current day and move on to the next one

Program menu: new holiday astronomical

1) HOLIDAY OFF: the relay remains OFF from the start to the end of the holiday program.
2) HOLIDAY ON: the relay remains ON from the start to the end of the holiday program.

Program parameters
- program start
- program end

### How to select the day(s) in a astronomical holiday program

1) To set the program:
- in the first, second, third, fourth or last week of the month. On the day(s) (Monday, ...) of the week just specified
- of the month specified (MM for every month)
- of the year specified (YY for every year)

NOTE: in this case, the holiday program must begin and end on the same day. Otherwise, ERROR 010 will be displayed.

2) To set the program for the last day:
--/MM/YY of every month of every year
--/YY/YY of YY (the month specified), every year
--/MM/ZZ of every month of ZZ (the year specified)
--/YY/ZZ of YY (the month specified) of ZZ (the year specified)

3) To set the program for XXday (1,2,3...):
XX/MM/YY of every month of every year
XX/YY/YYof YY (the month specified), every year
XX/MM/ZZ of every month of ZZ (the year specified)
XX/YY/ZZ of YY (the month specified) of ZZ (the year specified)

PROGRAM MENU: CHECK
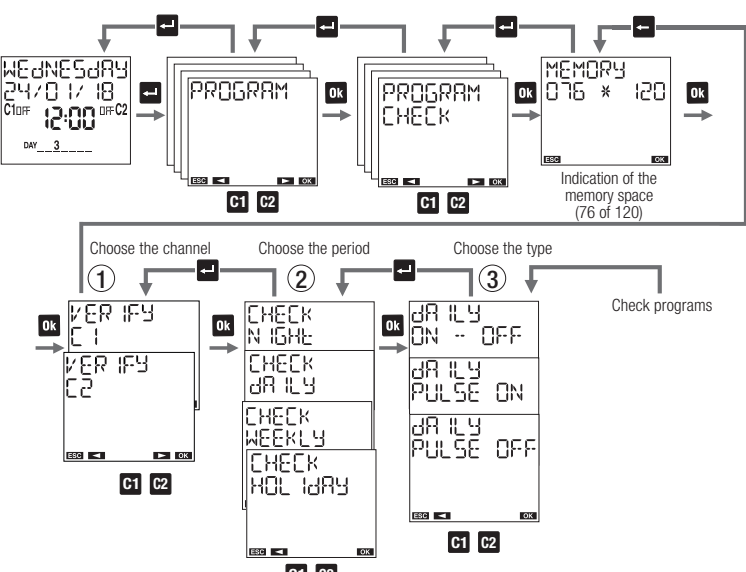
How to check a program
1) Select the channel (only for GWD6789)
2) Select the period: daily, weekly, holiday or night-time (only in the case of a astronomical-type channel)
3) Select the type: on/off, ON impulse, OFF impulse, night-time program (only in the case of a astronomical-type channel)

NOTE: a program requires several screens in order to be visualised:
- press OK to move from the first to the second part of the same program
- press C1 and C2 to move from one program to another

PROGRAM MENU: CHANGE
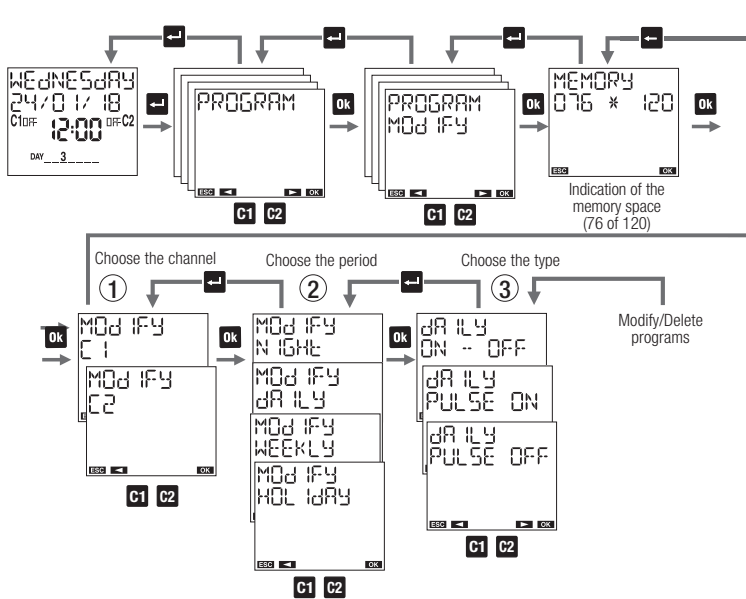
How to modify or delete a program
1) Select the channel (only for GWD6789)
2) Select the period: daily, weekly, holiday or night-time (only in the case of a astronomical-type channel)
3) Select the type: on/off, ON impulse, OFF impulse, night-time program (only in the case of a astronomical-type channel)

NOTE: a program requires several screens in order to be visualised:
- press OK to move from the first to the second part of the same program
- press C1 and C2 to move from one program to another

To modify: press and hold the OK button key for at least 3 seconds
To delete: press and hold the OK and button key keys simultaneously for at least 3 seconds
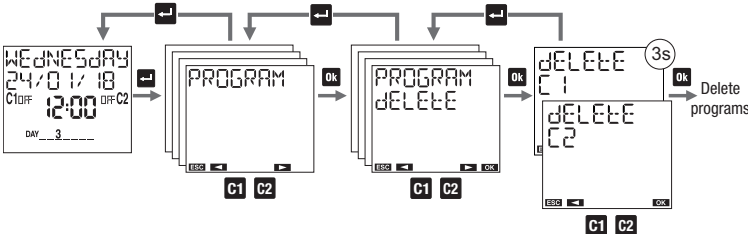
PROGRAM MENU: COPY (ONLY FOR GWD6789)
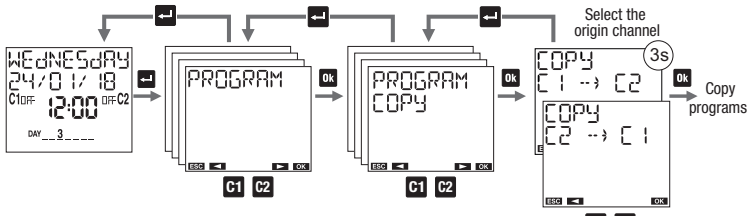
The "copy" menu is used to copy the programs of one channel (the origin channel) onto the other channel (the destination channel).
NOTE: programs already stored on the destination channel will be deleted.

PROGRAM MENU: DELETE

The "delete" menu is used to delete all the programs stored on the channel specified. Press and hold the OK button key for at least 3 seconds.
NOTE: to delete just one program, refer to the "modify" menu.

BLUETOOTH MENU
The Bluetooth menu is used to enable or disable the Bluetooth interface and change the password used to associate your device (smartphone or tablet) with the time/astronomical switch.

To enable the Bluetooth interface:
1) Set Bluetooth ON

ATTENTION: for the Bluetooth interface to be active, the product must be powered from the mains and be showing the homepage. This means the Bluetooth interface isn't active while you are navigating the menus.

To disable the Bluetooth interface:
2) Set Bluetooth OFF

When Bluetooth is disabled, communication between your device and the product is impossible. The time switch works with the settings and programming already defined; variations can only be made, or new programs created, by directly using the product keypad.
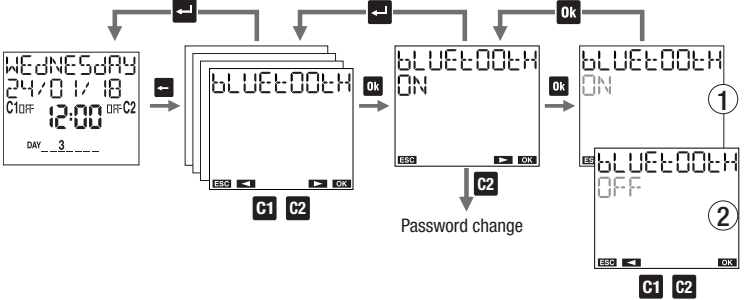

Modifying the password
The password is the 6-figure code requested by the app for the first association between the product and your smartphone.

The pre-set password is 123456, but it can be changed.
1A) Press and hold the OK button key for at least 3 seconds, until the first figure of the password begins to flash.
1B) Set the first figure using the C1 and C2 button keys, then press OK to confirm and move on to the next figure.
1C) Repeat point 1B to set all 6 figures. Once you have confirmed the last figure, the display will show the new password. Press to quit the menu.
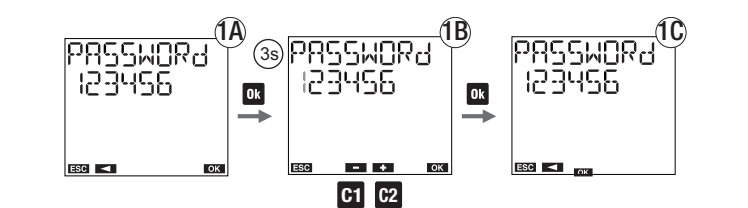

HOUR COUNTER MENU
The "hour counter" menu is used to view the operating hours (relay ON) of the connected loads.
The maximum value of the hour-counter is 99999 hours (approx. 11 years); once this limit has been reached, the hour-counter automatically resets itself.

To reset an hour-counter:
1. Select the required channel (only for GWD6789)
2. Press and hold the OK button key for 3 seconds, until the display shows "HOUR CNT dELEtE ?"
3. Confirm by pressing OK (or press to quit without resetting)

NOTE: you can reset all the hour-counters simultaneously from the "Reset" menu.
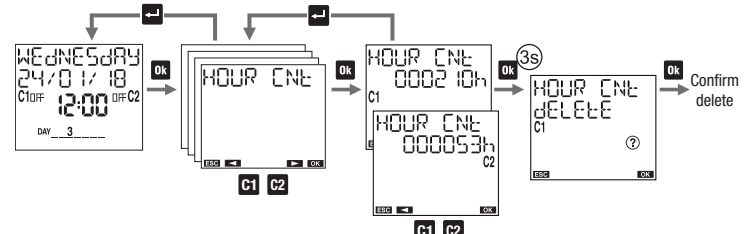
RESET MENU
The "reset" menu is used to restore the initial status of the product.

Reset actions available:
1) Reset settings: deletes all the settings made (apart from the language and PIN)
2) Reset time programs: deletes all the time programs saved
3) Reset holiday programs: deletes all the holiday programs saved
4) Reset astronomical programs: deletes all the astronomical programs saved
5) Reset hour-counters: resets the hour-counters of all the channels
6) Reset everything: performs all the reset actions listed above, and deletes the language and protection PIN

There is also another reset action, of the hardware type, used to reset the product if it reacts in an incorrect manner to the pressing of the button keys. In this case, the programming and settings are not lost (only the date and time).

To make a hardware reset:
use a pointed object to press the "R" button key
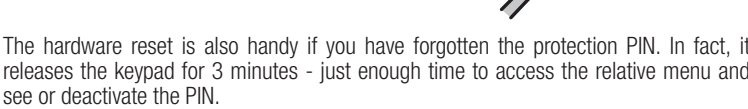
The hardware reset is also handy if you have forgotten the protection PIN. In fact, it releases the keypad for 3 minutes - just enough time to access the relative menu and see or deactivate the PIN.
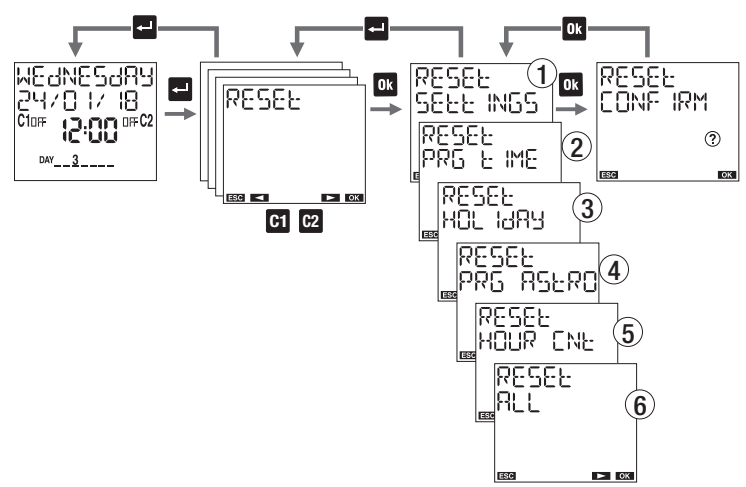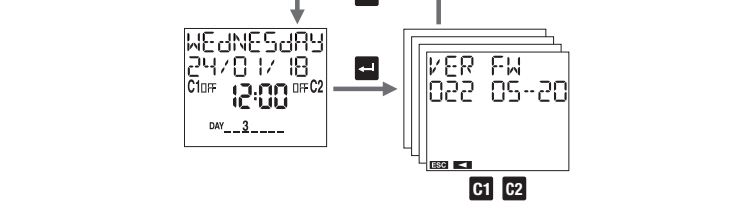

FIRMWARE MENU
Shows the firmware version installed on the product, where:
022 represents the revision code
05 represents the month
20 represents the day

ERROR SIGNALS
If there is any incoherency during the setting of the programs, the following error signals may appear:

ERROR 001	ON and OFF events with different frequencies (every ON event must have a corresponding OFF event)
ERROR 002	Simultaneous ON and OFF events on the same program
ERROR 003	Two (or more) consecutive ON events on the same program / Two (or more) consecutive OFF events on the same program
ERROR 004	Invalid date
ERROR 005	Insufficient memory
ERROR 006	Attempt to set an ON impulse on a channel where an OFF impulse is already stored (see Program Priority in the Program Menu)
ERROR 007	Attempt to set an OFF impulse on a channel where an ON impulse is already stored (see Program Priority in the Program Menu)
ERROR 008	Attempt to set a Holiday ON program on a channel where a Holiday OFF program is already stored (see Program Priority in the Program Menu)
ERROR 009	Attempt to set a Holiday OFF program on a channel where a Holiday ON program is already stored (see Program Priority in the Program Menu)
ERROR 010	Attempt to set a Holiday program with ON and OFF events on different days of the week (see New Holiday Time)
ERROR 011	Attempt to set a astronomical program on a time-type channel (see Program Priority in the Program Menu)
ERROR 012	Attempt to set a time program on an astronomical-type channel (see Program Priority in the Program Menu)
ERROR 030	Memory access error*

* In this case, perform a hardware reset. If the error persists, contact Gewiss Technical Service Assistance (tel. +39.035.946111).

MANAGING THE BATTERY
When the battery is almost run down, you will see bAttErY on the first line of the display. Replace the battery as soon as possible. **Use only CR2032 type batteries.**

To replace the battery:
- disconnect the power supply
- remove the battery compartment cover by rotating it anti-clockwise, then replace the battery
- replace the cover, rotating it clockwise
- reconnect the power supply

Attention: don't use metal objects (e.g. a screwdriver) to remove the battery, as this might annul the reserve charge and lead to the loss of the date and time.
Attention: to avoid losing the settings and programming, the battery replacement operation mustn't take longer than 60 seconds (with no power supply).

REFERENCE STANDARDS
EU DECLARATION OF CONFORMITY
Gewiss declares that the product complies with EC Directive 2014/53/EU (RED) with reference to the following Standards:
· EN 60730-2-7
· ETSI EN 301 489-1
· ETSI EN 301 489-17
· ETSI EN 300 328

The complete text of the EU Declaration of Conformity is available at www.gewiss.com