User Manual

DWA





Index

Technical features	page	3
	page	4
Dimensions	page	4
Wiring diagrams	page	5
Display and keyboard description	page	6
Initial operation	page	7
Start page (or main)	page	8
Manual switching	page	11
Menu description	page	12
Settings menu	page	14
Language setting menu	page	15
Date setting menu	page	16
Time setting menu	page	17
Daylight saving time (DST)/winter time (CET)		
change setting menu	page	18
Astronomical coordinates setting menu	page	20
Random switchings setting menu	page	22
Cycle switchings setting menu	page	23
Protection PIN setting menu	page	24
Program menu	page	25
Program menu: new	page	29
Program menu: new daily timed	page	30
Program menu: new weekly timed	page	31
Program menu: new holiday timed	page	32

Program menu: new astro night	page	34
Program menu: new astro daily	page	38
Program menu: new astro weekly	page	39
Program menu: new astro holiday	page	40
Program menu: check	page	42
Program menu: modify	page	44
Program menu: copy	page	46
Program menu: delete	page	47
Bluetooth	page	48
Hour couter menu	page	50
Reset menu	page	5
Firmware menu	page	54
Error signals	page	55
Battery management	page	56
Reference standards	page	56

USER MANUAL

The digital time switches of DWA series are electronic devices for the management of the electrical utilities over time. They allow the time programming (periodicity: daily or weekly) or astronomical.

DWA1 is equipped with a relay (channel 1) while DWA2 is equipped with two relays (2 independent channels).

Each channel can be associated with a different programming (time or astronomical).

DWA time switches have a Bluetooth interface that allows it to be coupled with mobile devices (smartphone or tablet). Thanks to the free app that can be downloaded from the AppStore and Google Play stores, it is possible to program and make settings directly on your smartphone, and then transfer all the data to the time switch.

The reverse procedure is also possible, i.e. to copy the programming of a time switch on your mobile device.

The backup battery allows you to keep the settings even in case of black-out and can be replaced through the cover on the back of the time switch.

DWA time switches are devices of electronic type that perform actions of 1B type, intended to operate in environments with III overvoltage category and pollution degree 2 in accordance with EN 60730-1 standard.

Code	Model	Description
2CSM222511R1000	DWA1	Digital weekly astronomical/time switch 1 channel with Bluetooth
2CSM222501R1000	DWA2	Digital weekly astronomical/time switch 2 channels with Bluetooth

TECHNICAL FEATURES

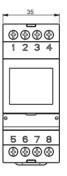
- Power supply: 230 Vac (-15% ÷ +10%) 50/60 Hz
- Power consumption:
 - DWA1: 2W (6 VA)
 - DWA2: 2W (6 VA)
- Lithium backup battery: 3V, CR2032 type (replaceable)
- Output:
 - DWA1: 1 monostable change-over relay with maximum switchable load of 16A / 250V
 - DWA2: 2 monostable change-over relays with maximum switchable load of 16A / 250V
- Terminal block for cables with maximum cables section of 2.5 mm²
- Display LCD with backlighting (active with AC power supply)
- Bluetooth BLE 4.2 communication interface (active with mains power supply)
- · Storable programs:
 - DWA1: 120 events
 - DWA2: 120 events (divisible on 2 channels)
- Actions type: 1B
- Operating temperature: -20 ÷ +50 °C
- Operating humidity: $20 \div 90\%$ non condensing
- Storage temperature: -25 ÷ +70 °C

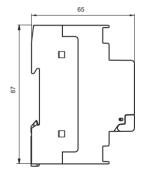
- Operating frequency band: 2400-2483.5 MHz
- Maximum transmitted radiofrequency power: 4 dBm
- Container: 2 DIN modules
- Protection degree: IP20
- Insulation: reinforced between accessible parts (front) and all the other terminals

SAFETY WARNINGS

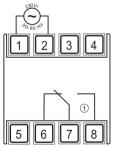
- During product installation and operation it is necessary to observe the following instructions:
- 1) The instrument must be installed by a qualified person, strictly in observance of the connection diagrams shown in this manual.
- 2) After installation inaccessibility to the terminals without using dedicated tools must be guaranteed.
- 3) Before accessing the connection terminals, make sure that the leads are not live.
- 4) Do not connect or feed the instrument if any part of it is damaged.
- 5) The product must be installed and activated in compliance with current electric systems standards.
- 6) Do not use the instrument for anything other than the indicated purpose.
- 7) In the electrical system upstream of the device must be installed a protection device against the overcurrents
- 8) The product can be used in environments with overvoltage Category III and Pollution degree 2, according to the Standard FN 60730-1
- 9) The access to the device must be limited and the default device PIN and Bluetooth password must be changed in order to avoid tempering of programs of relays.

DIMENSIONS (mm)

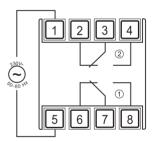




DWA1



DWA2



DISPLAY AND KEYBOARD DESCRIPTION



- General indications
- ② Time indication
- 3 Channel 1/channel 2 status indication
 In/IF

🗘 : active manual program

+ a : blocked switchings

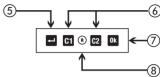
+ 3: active random switchings

C + □¬/□FF (flashing) : active cycle switchings

: active holiday program

 Ω : active pulse program

Day of the week (DAY) indication



(5) Turn on the display Access the menu ESC (one level back)

(6) "C1": decrease datum/previous menu/ switching channel 1/ lock channel 1

"C2": increase datum/next menu/ switching channel 2/ lock channel 2

- 7 Confirm selection
- (8) Hardware reset

"Ok" + "C1" (3 sec): active random switching on channel 1
"Ok" + "C2" (3 sec): active random switching on channel 2

"=" + "C1" (3 sec): active cycle switching on channel 1
"=" + "G2" (3 sec): active cycle switching on channel 2

INITIAL OPERATION

- Once out of the package, DWA is off: press the key and wait a moment before activating the display
- The set language is English. To change it, press the key I for at least 3 seconds. Choose among: German, English, Spanish, French, Italian, Russian and confirm with I
- Make connections following the diagrams on page 5 of this manual
- · Power DWA: the backlighting turns on permanently.

Data

 The presence of the backup battery allows the DWA to have updated date and time.

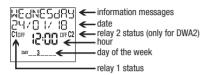
To make the other settings follow the following steps:

Date	- 1st day of the week: Monday
Astronomical coordinates	- country: France - city: Paris - latitude: North (48° 51' 36") - longitude: East (2° 21' 00")

formet DD/MMMAAA

Daylight Saving time (DST change: active) - start of daylight saving time (DST): last Sunday of March at 02:00 o'clock - end of daylight saving time (DST): last Sunday of October at 03:00 o'clock
Time correction:	- sunrise: +0:00 - sunset: +0:00
Time zone:	+1:00 UTC
Random switchings:	- minimum: 1 minute - maximum: 5 minutes
Cycle switchings:	- ON duration: 1 minute - OFF duration: 1 minute
PIN protection:	disabled ()
Bluetooth:	disabled (Password: 000000)

START PAGE (or main)



Information messages

- day of the week
- product identification code and serial number
- battery status (only if discharged)
- -NO SUPPLY*
- * Only if DWA is not powered by mains. In this condition the backlighting is not active and the relay is in off status.

NOTE: Bluetooth interface is active only when DWA displays the start page (main) and only if it's mains power supplied. Therefore, to transfer programs from and to the times witch it is necessary to respect these conditions.

•	Press	the	key:
---	-------	-----	------

to access the menu of DWA

g and c to change channel 1 and channel 2 status (only for DWA2)

ok to display the Bluetooth signal level or the calculated sunrise and sunset times**

** The displayed times take into account possible entered values of correction (see page 18)_

if the display shows ___ means that the calculated sunrise time is after the sunset time if the display show ___ means that the calculated sunrise time is before 00:00 or that the calculated sunset is at 23:59

NOTE: The device is supplied with deactivated Bluetooth interface. To activate it, access Bluetooth menu (see page 46).

Access the store of your device, install and start the free app DBT TIMER







- 9 -User manual DWA

- Activate Bluetooth on DWA devices (see page 46).
- ② At the start the app displays the list of the associated DWA devices. To associate a new device, press the symbol "*" in the upper right corner.
- All the Bluetooth devices detected nearby are displayed: select the device to be associated from the list. Note: each device is identified by the product code (for example DWA) and by the serial number (for example 00000020). These informations can be viewed from the main page of the DWA Warning: make sure that the DWA is mains powered, Bluetooth interface is activated and that the display shows the main page (initial). Otherwise the Bluetooth interface is not active and the device is not visible
- 4 Enter the password to associate the DWA with your device
 - After successfully completing the procedure, the DWA is added in the list of the associated devices. Select the DWA on which you want to act from the list of the associated devices Note: communication between the app and the DWA is point-to-point. This means that, even in the presence of multiple DWA, the app can communicate with one only at a time. The DWA currently connected to the app displays the symbol * immediately after the serial number.

ODOOOOSIQ*

- **6** The app displays the initial page of the selected DWA. From this page you can:
 - a. Create new programs that will then be copied to the DWA
 - b. Change the settings of the DWA
 - c. View the parameters and associate an alias to the DWA
 - d. Manually control the relay output/s and activate the random switching function or cycle function.

MANUAL SWITCHING

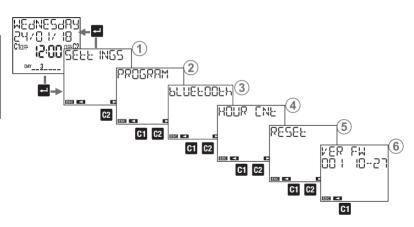
To manually take action on the channels of DWA time astronomical switches (activated with the combination described on page 6), carry out the operations described below:

- ③ SWITCHING CHANNEL: press the key 🚮 for channel 1 or 🔁 for channel 2. If on becomes off and vice versa. temporary on Ć: the selected channel is set on until the next programmed off event temporary off Ć: the selected channel is set off until the next programmed on event
- ② LOCK CHANNEL: press for a long time (for 3 seconds at least) the key 🗗 for channel 1 or 🔁 for channel 2. The current state is locked until the unlocking (press again for a long time the key 🖸 or 🔁).

 permanent on 🖨 the selected channel is locked in on position until the manual unlocking permanent off 🖨 the selected channel is locked in off position until the manual unlocking
- RANDOM SWITCHING: press contemporary and for a long time (for 3 seconds at least) the key on and c for channel 1 or c for channel 2. Press again simultaneously and for a long time the keys on and c for c for channel is set on and then will take place switching on/off at random intervals (the minimum and maximum interval can be set from "Settings → random" menu)

MENU DESCRIPTION

Press the key - to access the menu

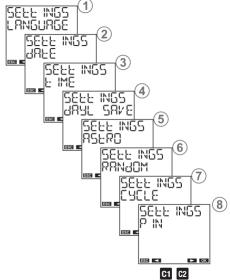


- 12 -User manual DWA

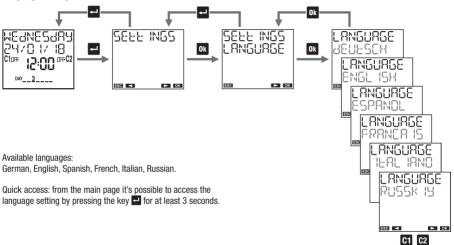
- ① "Settings" menu allows you to change: language, date, time, daylight saving time (DST), astronomical coordinates, minimum and maximum duration of the interval between two switchings with random program, ON and OFF duration of cycle switchings, PIN for keyboard lock.
- ② "Programming" menu allows you to set a new program or to check, to copy, to modify or to delete a set program.
- ③ "Bluetooth" menu allows you to configure the Bluetooth communication interface.
- 4 "Hour counter" menu allows you to check the operation hours (relay on) of the loads connected to the relays.
- ⑤ "Reset" menu allows you to reset settings, programmed settings, operating hour counter.
- (6) "Ver FW" menu allows you to check the firmware version installed on the device.

SETTINGS MENU

- "Settings" menu allows you to view and eventually to modify the the general operation settings of DWA, such as:
- (1) language ② date
- ③ time
- (4) automatic daylight saving time (DST) change
- (5) position (astronomical coordinates)
- (6) interval duration between two random switchings
- 7 ON and OFF time duration for cycle switchings
- (8) keys protection by PIN

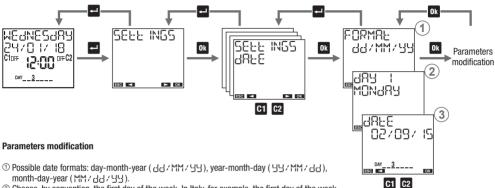


Language setting menu



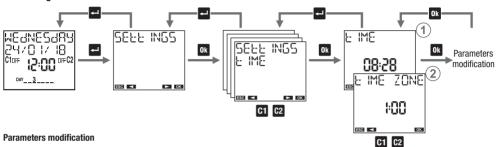
- 15 -User manual DWA

Date setting menu



- month-day-year (MM / 심급 / 남당).
- 2 Choose, by convention, the first day of the week. In Italy, for example, the first day of the week is Monday, in the UK it's Sunday.
- 3 Enter the date: day, month, year.

Time setting menu



- ① Set the time: hours, minutes.
- ② Set the time zone. Range: -14:00 \div +14:00 at 15 minutes steps. For Italy set +1:00.

Daylight saving time (DST)/winter time (CET) change setting menu

Daylight saving time (DST)/winter time(CET) change and vice versa can occur in an automatic way. In this case, DWA:

- increases by an hour in the passage from winter time (CET) to daylight saving time (DST)
- decreases by an hour in the passage from daylight saving time (DST) to winter time (CET)

For every change it's necessary to specify:



the week of the month during which the time change occurs (first, second, third, fourth, last)



the day of the week (Monday: 1, Tuesday: 2, ...)



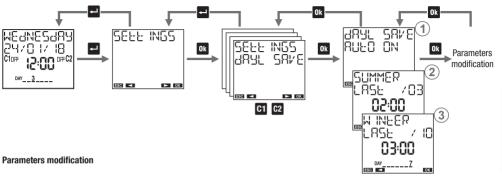
the month



the hour and the minutes

In Italy,for example, daylight saving time (DST) begins occurs the last (LRSE) Sunday (7) of March (D3) at 02:00 o'clock, and ends the last (LRSE) Sunday (7) of October (D) at 03:00 o'clock.

C1 C2



- ① Choose to activate (AUE) □N) or to disable (AUE) □FF) the automatic time change.
- ② Set date and time of the winter time (CET)-daylight saving time (DST) change.
- ③ Set date and time of the daylight saving time (DST)-winter time (CET) change.

Astronomical coordinates setting menu

The setting of the geographical coordinates of the installation place allows DWA to calculate, for each day of the year, sunrise and sunset times.

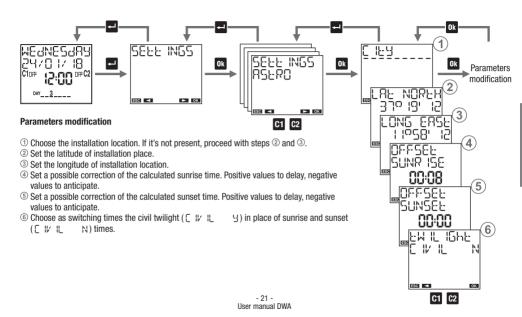
To simplify the procedure, in the DWA are stored the coordinates of the locations listed below; if your location is among them you can select it from the menu ①, otherwise it's necessary to enter the coordinates of latitude and longitude (menu ② ③).

Note: the display on point ① shows "-----" if the coordinates have been entered.

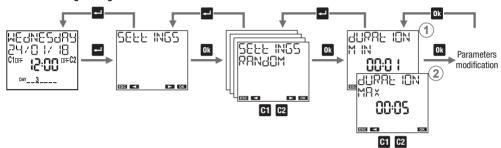
Location stored in DWA: Major cities of France, Germany, Italy, Russia, Spain, United Kingdom and some other major cities in the rest of the world

The correction of sunrise and sunset times is useful for applications that require the turning on of lights in particular localities. It's possible, in fact, that the presence of disturbing elements, such as the mountains, can influence actual times of sunrise and sunset, making it necessary to advance or delay of a few minutes the calculated times.

The twilight is the time interval before sunrise, or after sunset, characterized by the permanence of the light due to the spread by the atmosphere of the Sun light. During these time intervals it's possible to distinguish clearly objects and conduct outdoor activities without using additional lighting. Therefore, in some applications it is more interesting to take as times of switching on and off the twilight (civil) in place of sunrise and sunset. With DWA it's possible to choose to turn on/off the loads depending on the times of sunrise and sunset or the civil twilight. The calculated time correction also applies to the times of twilight. To view the calculated switching on time (sunset) and switching off time (sunrise), from the main page press the key (a) (see page 8).



Random switchings setting menu



The "random switching "o" function (activated with the combination described on page 6) allows the channel on which it's active to automatically switch and at random time intervals.

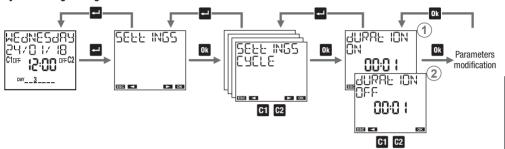
In this menu it's possible to define the minimum and maximum duration of the time interval between two random switchings. Default minimum duration is 1 minute, maximum duration is 5 minutes.

Parameters modification

- ① Set the minimum duration. It's possible to set values between 1 minute and the *maximum duration*.
- ② Set the maximum duration. It's possible to set values between the *minimum duration* and 23:59 hours.

 $Note: setting \ the \ minimum \ duration \ equal \ to \ the \ maximum, \ the \ switchings \ will \ occur \ at \ fixed \ time \ intervals.$

Cycle switchings setting menu



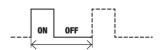
The "cycle switching" function (activated with the combination described on page 6) is a succession of on and off switching. The cycle programme always starts from the on status. In this menu it's possible to define the duration of on and off.

The duration of the on and off duration cannot be less than one minute.

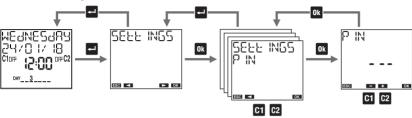
Default on duration: 1 minute, OFF duration: 1 minute

Parameters modification

- ① Set the ON duration. It's possible to set values between 1 minute and 99:59 hours.
- ② Set the OFF duration. It's possible to set values between 1 minute and 99:59 hours.



Protection PIN setting menu



The protection code (PIN) is used to lock the keyboard and prevent changes by unauthorized persons. With active PIN protection, pressing any key, it's necessary to enter the PIN: if PIN is correct the keyboard unlocks; after 3 minutes without pressing a key, the keyboard will lock automatically.

To activate PIN protection:

- set a value between 000 and 999

To disable PIN protection:

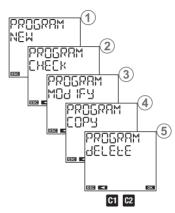
- set "---" (located before 000 or after 999)

Note: If you have forgotten your PIN code to unlock DWA it's necessary to carry out a hardware reset (see page 50).

PROGRAM MENU

The menu "program" allows you to:

- ① create a new program
- 2 check created programs
- ③ change or delete a created program
- ④ copy all created programs of channel 1 on the channel 2 and vice versa (only for DWA2)
- (5) delete all programs of a channel



Programs types

- Program ON/OFF: is composed of a switching of the ON relay and of a subsequent switching of the OFF relay. It can have a daily period
 (everyday with the same modes), weekly (every week with the same modes)*.
- PULSE ON Program: is an ON relay switching for a maximum duration of 59 seconds. It can have a daily period (everyday with the same modes), weekly (every week with the same modes)*.
- PULSE OFF program: is a relay switching OFF for a maximum duration of 59 seconds. It can have daily period (everyday with the same modes), weekly (every week with the same modes)*.
- HOLIDAY program: is a period of time defined by a start time and an end time within which all programmed switchings (of that channel)
 are disabled. The relay is in OFF position (OFF holiday) or in ON position (ON holiday).

Channel types

- TIME channel: carries out programs of time type: ON / OFF, ON pulse, OFF pulse, holiday
- ASTRO channel: carries out programs of astronomical type, i.e. in the interval delimited by sunrise and sunset*: ON/OFF, ON pulse, OFF pulse,
 holiday, night programs (see pages 34-35). ON switchings set before sunset are carried out at sunset, OFF switchings set after sunrise are
 carried out at sunrise (except for some night programs that can have switching on or switching off during the day. See on page 34).
- * times of sunrise and sunset are automatically calculated by DWA according to geographic coordinates set during installation. In place of sunrise and sunset times it's possible to use the times of civil twilight (see page 18).

- △ **Important:** on the same channel can't coexist ON pulses and OFF pulses (if an ON pulse is already present, it's not possible to save a holiday OFF program and vice versa).
- △ Important: on the same channel can't coexist holiday ON programs and holiday OFF programs (if a holiday ON program is already present, it's not possible to save a holiday OFF program and vice versa).
- △ Important: a channel may be either of clockwise or of astronomical type, but it can't be of both types simultaneously. It's not possible to save programs of astronomical type on a channel where are stored programs of time type (and vice versa). Messages of ERROR ☐ | | (astro program on channel astro) and ERROR ☐ | | 2 (time program on astro channel). In this case to proceed it's necessary to delete the saved programs on that channel (see page 45).

Programs priority

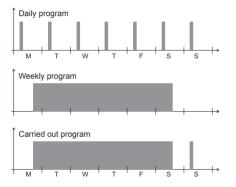
The priority programs defines how DWA manages the case in which programs with different period are running at the same time (1 indicates higher priority).

Program	Date*	Weekly	Daily
Holiday		1	
Pulse		//////////////////////////////////////	
On/Off		3	4

* Date: select day, month, year (program carried "only once in the life of the product"). If the month is not specified, the program is carried out all days xx of all months of the specified year.

Priority list on/off

In case in which, on the same channel, on/off programs are provided with different period (daily or weekly) to carry out in the same day, only the program with the highest priority is executed.



From this example it's possible to see that the daily event on Monday is not carried out because in the same day it is provided the beginning of the week program (even if the daily program

of Monday begins and ends before the beginning of the weekly program). Instead, the daily program of Sunday is carried out because it's the only one running for that day.

Holiday program

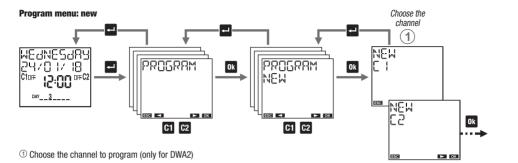
The holiday program just begins and ends exactly at the specified times.

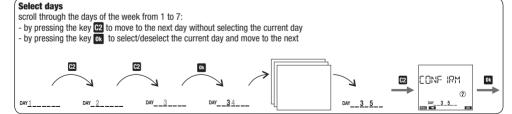




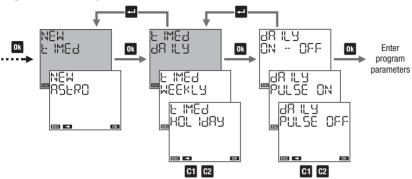


- 28 -





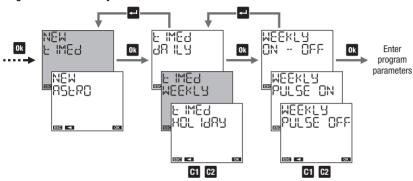
Program menu: new daily timed



Program parameters

- on/off: on time and off time
- on pulse: time and pulse duration (max 59 seconds)
- off pulse: time and pulse duration (max 59 seconds)

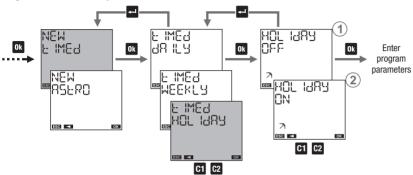
Program menu: new weekly timed



Program parameters

- on/off: day (or days)* and on time, day (or days) and off time
- on pulse: day (or days)* and pulse time, pulse duration (max 59 seconds)
- off pulse: day (or days)* and pulse time, pulse duration (max 59 seconds)
- * See "Select days" on page 27

Program menu: new holiday timed



- ① HOLIDAY OFF: the relay is OFF from the beginning to the end of Holiday program
- ② HOLIDAY ON: the relay is ON from the beginning to the end of Holiday program

Program parameters

- beginning of the program
- end of the program

How to choose the day (or days) in a holiday program



1 to set the program:

in the first, second, third, fourth or last week of the month in / the day/s (Monday, ...) of the week just specified the specified month (MM for all months) the given year (44 for all years)

Nota: in this case, the holiday program must begin and end in the same day. Otherwise ERROR O O

(2) to set the program on the last day:

---/MM/99 of all months of all years

---/VV/99 of the specified VV month of all years

--- /MM / ZZ of all months of the specified ZZ year

 $--/VV/\overline{Z}Z$ of the specified VV month of the specified ZZ year

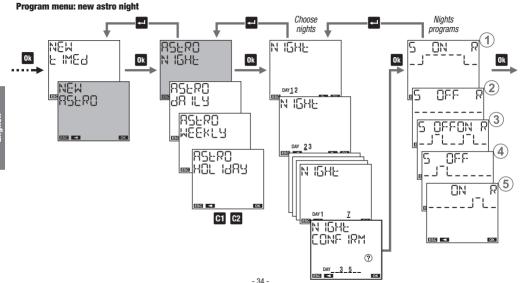
3 to set the program on the day XX (1,2,3...):

xx/MM/99 of all months of all years

××/VV/リリ of the specified VV month of all years

××/MM/ZZ of all months of the specified ZZ year

 $\times \times /VV / \overline{Z} \overline{Z}$ of the specified VV month of the specified ZZ year



User manual DWA

How to select nights

scroll through the nights of the week from the first (1-2) to the last (7-1):

- by pressing the key 😥 key to move to the next night without selecting the current night
- by pressing the key ok to select/deselect the current night and move to the next

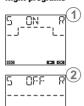


How to interpret the selection

If the night between the days of A and B is selected, the day A is on and underlined while B is on (not underlined). Examples of selection:

- DAY 12345 Selected nights: between day 1 and 2, between day 2 and 3, between day 3 and 4, between day 4 and 5
- DAY 12345 Selected nights: between day 1 and 2, between day 2 and 3, between day 4 and 5
- DAY 1234 7 Selected nights: between day 1 and 2, between day 3 and 4, between day 7 and 1

Night programs



Turning on at sunset, turning off at sunrise. No parameter required.

Off from sunset to sunrise. No parameter required.

- * If off time is before sunset, switching is not carried out. If on time is after sunrise, switching is not carried out.
- ** Switching on continues for the entire set time interval (also if off time is after sunrise).
- *** Switching on occurs before sunrise of the entire set time interval (also if on time is before sunset).



Turning on at sunset, turning off during the night. Turning on during the night, turning off at sunrise.

Choose one of the three following cases:



Turning on at sunset, turning off at a settable time.

Turning on at a settable time, turning off at sunrise. (*)



Turning on at sunset, turning off after a settable time interval.

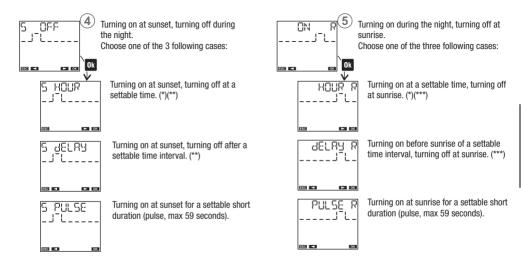
Turning on before sunrise of a settable time interval, turning off at sunrise.



Turning on at sunset for a settable short duration (pulse, max 59 seconds).
Turning on at sunrise for a short settable

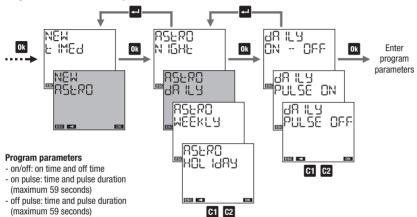
duration (pulse, max 59 seconds).

- 36



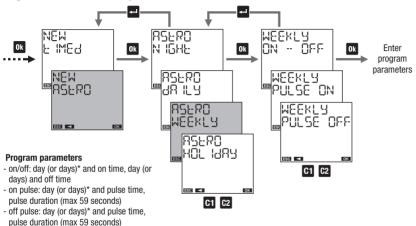
- 37 -User manual DWA

Program menu: new astro daily



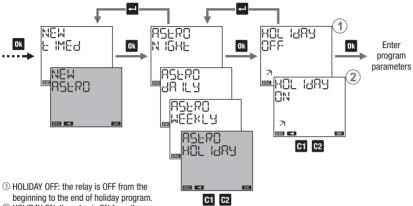
- 38 -User manual DWA

Program menu: new astro weekly



^{*} See "Select days" on page 27

Program menu: new astro holiday



- 2 HOLIDAY ON: the relay is ON from the
- beginning to the end of holiday program.

Program parameters

- beginning of the program
- end of the program

How to choose the day (or days) in a holiday astro program



1 to set the program:

in the first, second, third, fourth or last week of the month in / the day/s (Monday, ...) of the week just specified the specified month (MM for all months) the given year (44 for all years)

Note: in this case, the holiday program must begin and end in the same day. Otherwise ERR이유 이 네이 is signaled.

(2) to set the program on the last day:

--- /MM / 99 of all months of all years

--- /VV / 44 of the specified VV month of all years

---/MM/ZZ of all months of the specified ZZ year

---/VV / ZZ of the specified VV month of the specified ZZ year

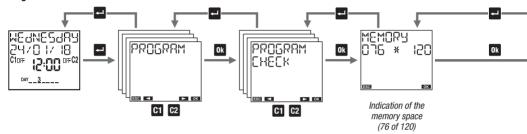
3 to set the program on the day XX (1,2,3...):

xx/MM/99 of all months of all years

××/MM/ZZ of all months of the specified ZZ year

 $\times \times / V V / Z Z$ of the specified VV month of the specified ZZ year

Program menu: check

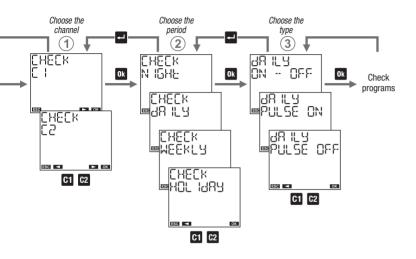


How to check a program

- ① choose the channel (only for DWA2)
- ② choose the period: daily, weekly, holiday or night (when it is a channel of astronomical type)
- ③ choose the type: on/off, on pulse, off pulse or a night program (only if it is a channel of astronomical type)

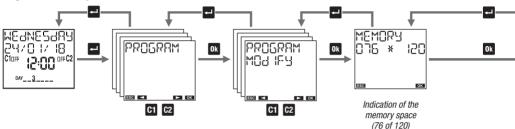
Note: a program requires more screens to be displayed:

- press the key ok to move from the first to the second part of the same program
- press the keys C1 and C2 to switch from one program to another



- 43 -User manual DWA

Program menu: modify



How to modify or to delete a program

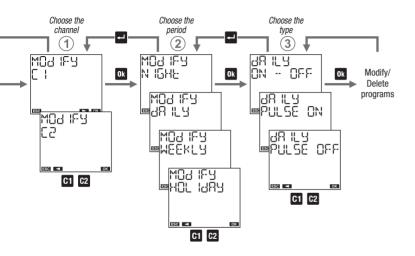
- ① choose the channel (only for DWA2).
- ② choose the period: daily, weekly, holiday or night (only if it's an astronomical channel)
- ③ choose the type: on/off, on pulse, off pulse or a night program (only if it's an astronomical channel)

Note: a program requires more screens to be displayed:

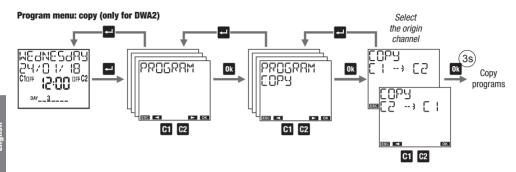
- press the key or to move from the first to the second part of the same program
- press the keys cland 2 key to switch from one program to another

To modify: press for a long time (at least 3 seconds) the key ok

To delete: press for a long time and simultaneously the keys ok and -

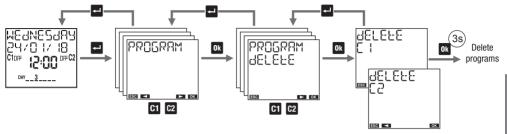


- 45 -User manual DWA



[&]quot;Copy" menu allows copying the programs of a channel (origin channel) on the other channel (channels destination). Note: the programs previously stored on the channel destination will be deleted.

Program menu: delete



[&]quot;Delete" menu is used to delete all stored programs on the specified channel. Note: to delete one single program to see "modify" mode (see page 42).

BLUETOOTH MENU

The Bluetooth menu allows you to enable or disable the Bluetooth interface and change the password used to associate your device (smartphone or tablet) to DWA.

The device is supplied with deactivated Bluetooth interface. To activate it, it's enough to access Bluetooth menu and set a password different from 000000. With Bluetooth menu it's possible to activate or deactivate the interface or change the password.

After changing the password the first time, it's not possible to set the value 000000.

To enable the Bluetooth interface:

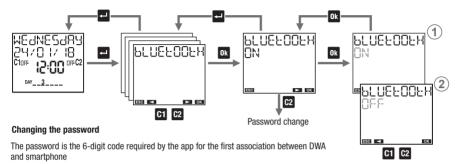
1 set Bluetooth ON

Warning: to make the Bluetooth interface active, the DWA must be mains powered and connected to the main page (see page 8). The Bluetooth interface is therefore not active when browsing through the DWA menus.

To disable the Bluetooth interface:

2 set Bluetooth OFF

In this way no communication can take place between your device and DWA. DWA works with the settings and programs already set; any changes or creation of new programs must be made by acting directly on the keyboard of DWA.

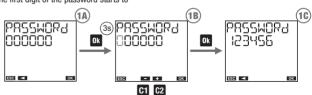


(A) Press the key (D) for at least 3 seconds until the first digit of the password starts to flash

- (B) Set the first digit with the keys (C1) and (C2) keys and press the key (Ok) to confirm and move to the next digit.
- (ii) Repeat step (ii) to set all 6 digits.

 After confirming the last digit, the display shows the new password.

Press the key — to exit the menu.



HOUR COUNTER MENU

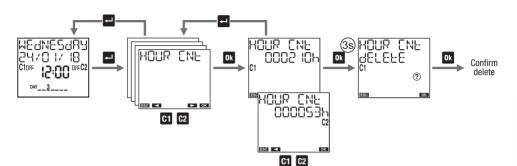
"Hour counter" menu allows you to display the hours of use (relay on) of connected loads.

The maximum value of the counter is 99999 hours (about 11 years); reached the maximum limit, the counter resets automatically.

To reset a counter:

- 1. select the desired channel (only for DWA2)
- 2. press the key of for 3 seconds until the display shows "H□UR INE dELEEE "O"
- 3. confirm by pressing ok (press to exit without zeroing)

Note: it's possible to reset all counters contemporary from the "Reset" menu (see page 50).



RESET MENU

"Reset" menu allows you to restore the initial state of the device.

Available resets:

- ① Settings reset: deletes all the carried out settings (except the language and the PIN)
- 2 Time programs reset: deletes all saved time programs
- 3 Holiday programs reset: deletes all saved holiday programs
- 4 Astro programs reset: deletes all saved astronomical programs
- (5) Counter reset: resets the counters of all channels
- (6) Reset all: carries out all the above described resets and deletes the language and PIN protection

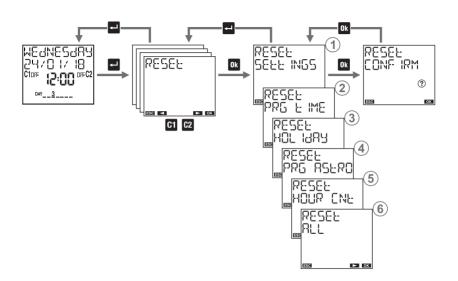
There is also another reset, of hardware type, which allows you to reset the device in case it responds to the pressing of the keys so unexpectedly, without losing the carried out settings/programs (only the date and the time are lost).

To carry out a hardware reset:

1. press the key "R" with a sharp object



The hardware reset is also useful when you forget PIN protection. Reset, in fact, unlocks the keyboard for 3 minutes, the necessary time to access the appropriate menu and check/disable PIN.



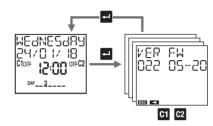
- 53 -User manual DWA

FIRMWARE MENU

This menu shows the firmware installed in the device, where: 022 is the revision index

05 is the month

20 is the day



ERROR SIGNALS

When setting up programs,	in case of a discrepancy, the following
error messages can occur:	

- ERROR DO I on and off events with different frequency (each on event must have an off event)
- ERROR 002 on and off concomitant events of the same program
- ERROR DD3 Two or more consecutive on events of the same program / Two or more consecutive off events of the same program
- ERROR DOY Invalid date
- ERROR 005 Insufficient memory
- ERROR 006 Attempt to set an on pulse on a channel where is already stored an off pulse (see page 25)
- ERROR 001 Attempt to set an off pulse on a channel where is already stored an on impulse (see page 25)
- ERROR OOB Attempt to set an on holiday program on a channel where is already stored an off holiday program (see page 25)
- ERROR DD9 Attempt to set a holiday off program on a channel where a holiday on program is already stored (see page 25)

- ERROR O IO Attempt to set a holiday program of on and off events on different days of the week (see page 31)
- ERROR O II Attempt to set an astro program on a channel of time (see page 25)
- ERROR 0 12 Attempt to set a time program on a channel of time type (see page 25)
- ERROR 030 Error accessing memory *
- * In this case, carry out a hardware reset (see page 50).

 If the error persists, contact ABB technical support mobile

BATTERY MANAGEMENT

When the battery is close to empty, on the first line of the display appears 남자는 문유님. In this case, the battery must be replaced as soon as possible. **Use only batteries of CR2032.**

To replace the battery:

- disconnect the mains
- remove the battery slot cover, turning it anti-clockwisereplace the battery and remount the cover, turning it clockwise
- connect the power supply

Warning: do not use metal objects (such as screwdrivers) to remove the battery becuase this may cause the power reserve to be canceled, resulting in a loss of date and time.

Warning: in order not to lose the programming steps and carried out settings, it is necessary to ensure that the time for the battery replacement doesn't exceed 60 seconds (in absence of power by means).



Dispose of the used batteries observing the laws in force in relation to the disposal of hazardous waste.

REFERENCE STANDARDS

EU CONFORMITY DECLARATION

ABB declares that the device complies with the EU 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 EU conformity declaration is available at the Internet address ABB - www.abb.com



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