

DRT-DW2

Digital time switch



Index

■ Safety warnings	page	3	■ Automatic programming	page	14
■ Technical characteristics	page	3	1. Creating a new program	page	14
■ Dimensions	page	4	1.1 ON/OFF program	page	14
■ Connection diagrams	page	4	1.2 IMPULSE program	page	17
■ Display and keypad description	page	5	1.3 CYCLE program	page	20
■ Installation	page	6	1.4 HOLIDAY program	page	22
Setting the language	page	7	2. Checking a program	page	25
Setting the date format	page	7	2.1 Displaying a program	page	25
Setting the date	page	7	2.2 Modifying a program	page	26
Setting the time	page	8	2.3 Deleting a program	page	26
■ Programming	page	9	3. Resetting a program	page	27
ON/OFF events	page	9	■ Settings menu	page	28
IMPULSE events	page	9	LANGUAGE menu	page	28
CYCLE events	page	9	DATE menu	page	29
HOLIDAY events	page	9	TIME menu	page	30
Programming priority	page	10	CHANGE GMT/BST menu	page	30
■ Manual operation	page	11	CASUAL PARAMETERS menu	page	33
Manual switching on/off	page	11	PROGRAM OPTIONS menu	page	34
Casual switching on/off	page	11	PIN menu	page	34
Lock	page	12	RESET SETTINGS menu	page	35
Battery test	page	12	■ Meter menu	page	36
Menu Overview	page	13	■ Reset menu	page	36
			■ Battery replacement	page	37
			■ Reference Standards	page	37

Features



- Large display with easy to read text for easy programming.
- Sealable cover with locking facility via password.



- Cover on the back of the instrument for replacing the battery.

- Model with 2 relays and with daily/weekly programming.

- 2 -
User manual DRT-DW2

SAFETY WARNINGS

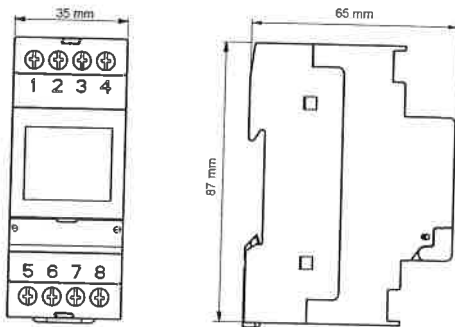
- 1) **The instrument must be installed and started up by a qualified person, strictly in observance of the connection diagrams shown in this manual.**
- 2) **After installation inaccessibility to the terminals without using dedicated tools must be guaranteed.**
- 3) **Before accessing the connection terminals make sure that the wires are not live.**
- 4) **Do not connect the instrument if any part of it is damaged.**
- 5) **The instrument 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.**

TECHNICAL CHARACTERISTICS

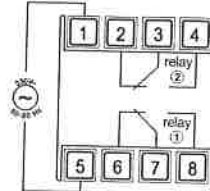
- Power supply: 230Vac \pm 10% 50/60Hz
- Absorption: 8VA (2W)
- Replaceable battery
- Output: - 2 relays with monostable change-over contacts
16(10)A / 250Vac
- Type of action: 1B
- Program memory for each channel:
 - 30 events (on, off, impulse, cycle)
 - 4 periods + 20 holiday days
- Backlit LCD display
- Software class: A
- Mounting: DIN rail to backplane
- Width: 2 DIN modules
- Operating temperature: -20°C to +40°C
- Storage temperature -10°C to +70°C
- Pollution level: 2
- Rated impulse voltage: 4kV
- Degree of protection: IP20 for the terminals
- Insulation: reinforced between accessible parts and all the other terminals

- 3 -
User manual DRT-DW2

DIMENSIONS

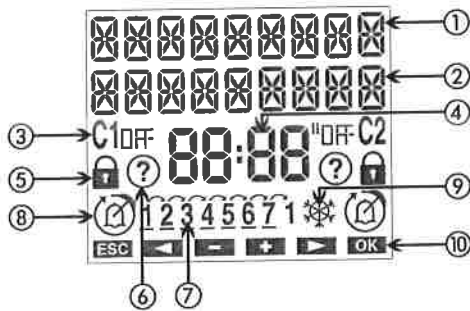


CONNECTION DIAGRAM



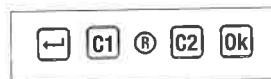
- 4 -
User manual DRT-DW2

DISPLAY AND KEYPAD DESCRIPTION



- ① Field "text1 / day"
- ② Field "text 2 / date"
- ③ Field "status relay1"
- ④ Field "time"
- ⑤ Field "lock"
- ⑥ Field "random program"

- ⑦ Field "day of the week"
- ⑧ Field "program running"
- ⑨ Field "GMT/BSI"
- ⑩ Field "function key"



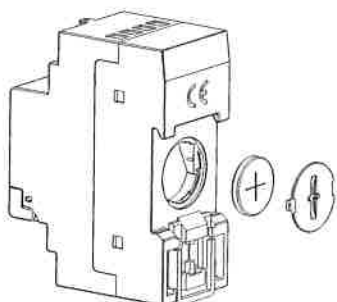
- Key "←": activate menus / return / check battery
- Key "Ok": confirm / activates IR transmission
- Key "C1": decrease / previous menu / switching channel 1 / lock channel 1
- Key "C2": increase / next menu / switching channel 2 / lock channel 2
- Key "R": reset settings

- Key "Ok" + "C1" (3 sec): random on/off channel 1
- Key "Ok" + "C2" (3 sec): random on/off channel 2

- 5 -
User manual DRT-DW2

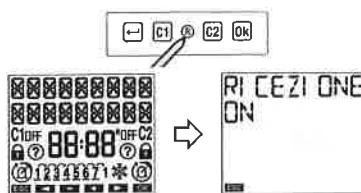
INSTALLATION

- The instrument is supplied with the battery not installed to avoid wasted consumption. Insert the battery into the housing located behind the instrument **so that pole (+) is visible as shown in the figure**. Then securely close the cover by turning clockwise.



- Connect the load and the power supply as illustrated in section "Connection diagrams"

- Using a pointed object press key "R" to perform a reset. All the parts of the display will light up for a few seconds and then the instrument will enter IR receipt mode.
Note: in case of power failure the IR receipt is not activated.



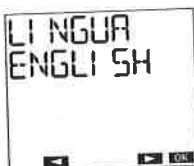
- Press key "←" to exit the IR receipt mode
- At this point it is possible to set the parameters necessary for the instrument to work correctly:
 - language
 - date format
 - date
 - time

- 6 -

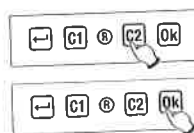
User manual DRT-DW2

Setting the language

It is possible to choose from five languages:
Italian → English → Spanish → French → German



Use keys "C1" and "C2" to choose the desired language.



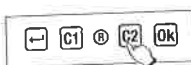
Press "OK" to confirm and go on to the "date format" menu.

Setting the date format

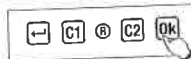
It is possible to choose from two date formats:
DD-MM-YY or YY-MM-DD



Use keys "C1" and "C2" to choose the desired format.



Press "OK" to confirm and go on to the "date" menu.

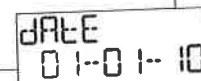


Setting the date

The parameter (year, month, day) to be changed flashes.



Use keys "C1" and "C2" to choose the desired value and press "OK" to confirm and to enter the next parameter. The sequence of parameters to be entered is year → month → day.



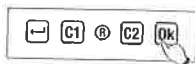
When the date is entered, the display also shows the day of the week bar with the corresponding day of the week. (1 → Monday, 7 → Sunday).



- 7 -

User manual DRT-DW2

Press **"Ok"** to confirm and go on to the "date" menu.



Setting the time

The parameter (hours and minutes) to be changed flash.

Use keys **"C1"** and **"C2"** to choose the desired value and press **"Ok"** to confirm and go on to the next parameter. The sequence of parameters to be inserted is hours → minutes



Press **"Ok"** to confirm.



The instrument then goes into **normal operational status** and is ready for use. The display shows the values for the date, time, status relay 1, status relay 2 (when present), day of the week (on the first line in letters and lower down in numbers) and the GMT/BST symbol.



Note: if the instrument is not fed by the mains the first line of the display will show the words **NO SUPPLY** instead of the day of the week.

In this condition backlighting is not active and the relay not switched.

- 8 -

User manual DRT-DW2

PROGRAMMING

ON/OFF event

ON and OFF events consist of switching the relay to the on or off position. They may be daily (every day at the same time) or weekly (one or more days during the week, each week).

IMPULSE event

An impulse event can be an on or off type and may last for a maximum of 59 seconds.

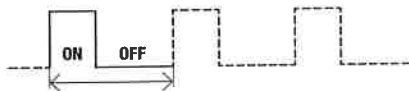


At the end of the on impulse the relay will always be in the off status; at the end of an off impulse the relay will always be in the on status. An impulsive event can be interrupted by a manual operation.

CYCLE event

A cycle event is a program which repeats itself over a preset period of time (maximum duration 1 week) during which there is a succession of on and off switching.

The cycle program always starts from the on status and always ends in the off status. The duration of the on and off status cannot be less than one minute.



The cycle event may be interrupted by a holiday event, a manual operation, a date/time change, automatic updating of GMT/BST time.

HOLIDAY event

A holiday event allows you to enter individual days or holiday periods during which all the set programs shall not be carried out and the relay shall be in the off position.

Holiday events always start at 00:00 on the first day and end at 23:59 on the last day of the holiday.

Holiday events are interrupted in the case of manual operations on output.

- 9 -

User manual DRT-DW2

Programming priority

In automatic function mode the instrument follows the entered programs. Should there be conflict between programs the instrument will only run the one with the highest priority according to the following table: 1 maximum priority and 5 minimum):

Event	Weekly	Daily
Cycle	1	-
Impulse	2	3
ON or OFF	4	5

Programmed events which start during an event already in progress (holiday, cycle) are ignored.

In the case of non-instantaneous (holiday, cycle, impulse) the device always completes the started program before managing the next.

Exceptions to this are:

- A holiday event occurs while executing a non-instantaneous program
- There is a change to manual operation while executing a non-instantaneous program. In this case all the programs running are interrupted and if there is a lock or random on the channel, execution of all programs is disabled until manual procedure is deactivated.

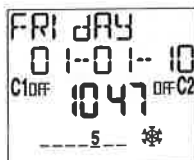
- 10 -

User manual DRT-DW2

MANUAL OPERATION

Manual operation allows an output (or outputs) on the instrument to be worked manually as well as reading the battery charge level.

Manual operations are available during the normal operational status in which the display looks similar to this screen.



Manual switching on/off

Briefly pressing keys "C1" or "C2" allows relay 1 or relay 2 to switch. The switched status is maintained until the next programmed event starts.

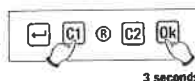
Casual switching on/off

It is possible to activate casual channel switching.

Activation brings the channel to the on status and shall then be followed by on/off switching with casual periods and

duty-cycles (the default minimum period is 1 minute and the maximum 5 minutes. These values can be changed in the settings menu if required.

Hold keys "C1" and "OK" down simultaneously for 3 seconds to activate the function on channel 1 or "C2" and "OK" to activate the function on channel 2.



Once activated the display shows the symbol ? under the channel concerned.

Pressing keys "C1" and "OK" again for 3 seconds (or "C2" and "OK") deactivates the function and the relay is set to off status. If the function is active on both channels then the outputs shall switch simultaneously.



- 11 -

User manual DRT-DW2

Lock

It is possible to activate the function which allows the switching of one channel to be locked. In this way all the programs are locked (including the holiday program and the other manual switchings) and the channel is maintained in its current status until manually unlocked.

Hold key "C1" down for 3 seconds to lock channel 1 and hold key "C2" down for 3 seconds to lock channel 2.

On confirmation of activation, the display shows the symbol  under the channel concerned.

Hold key "C1" down for 3 seconds (or "C2") to unlock the channel.



3 seconds

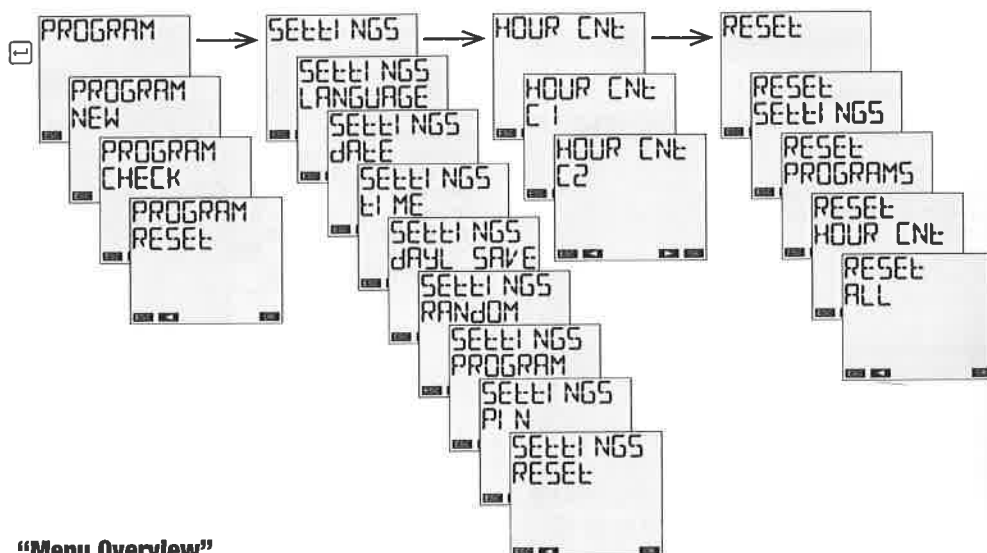


Battery test

The battery is read automatically once a week on Monday at 00:00. However you can read the battery status at any time by holding down key "b" for 3 seconds. On the display will appear the words **bAtE**. OK if the battery charge level is sufficient for correct operation; otherwise the words **bAtEeP** appear to indicate that replacement is required as soon as possible.

- 12 -

User manual DRT-DW2



"Menu Overview"

- 13 -

User manual DRT-DW2

AUTOMATIC PROGRAMMING

1. Creating a new program

1.1 ON / OFF program

Press key "↵" to enter the menu.
Choose the PROGRAM option using keys "C1" and "C2" and press "Ok" to confirm.



Choose option NEW using keys "C1" and "C2" and press "Ok" to confirm.

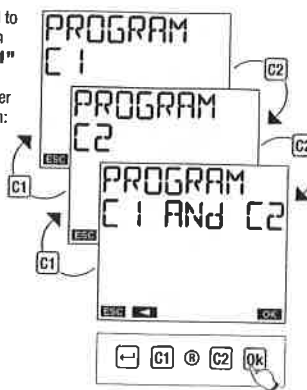


Choose which channel to enter the new program onto by using keys "C1" and "C2".

You can choose whether to execute the program:

- Channel 1
- Channel 2
- or on both channels simultaneously.

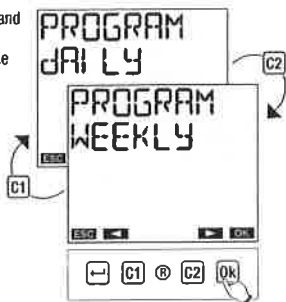
Press "Ok" to confirm.



- 14 -

User manual DRT-DW2

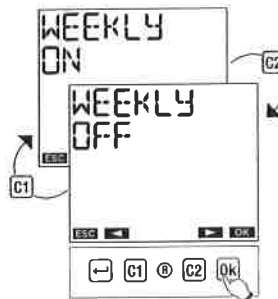
Using keys "C1" and "C2" choose the frequency of the event from:
- DAILY
- WEEKLY.
Press "Ok" to confirm.



Choose between an ON or OFF event.
Press "Ok" to confirm.

Insert the date using keys "C1" and "C2"
(not required for daily events).

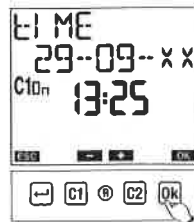
For weekly events it is possible to set more than one day of the week. By pressing key "Ok" you select/deselect the day in question while using key "C2" you scroll through the days until Sunday. By pressing "C2" again, CONFIRM appears: press "Ok" to confirm.



- 15 -

User manual DRT-DW2

Enter the hours and minutes for the switching using keys "C1" and "C2". Press "Ok" to confirm.



Note:

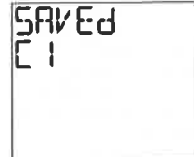
At this point the instrument activates the recursive function which allows several on-off events to be programmed in succession on the same day.

Thereby once an activation (deactivation) event has been programmed, it is possible to enter the time of a deactivation (activation) event for the same day.

If you do not wish to enter an off (on) time, press key "C1" to terminate programming.



Confirmation of programming is shown by the words **SAVED** on the display with the channel number.



1.2 IMPULSE program

Press key "C1" to enter the menu. Choose the PROGRAM option using keys "C1" and "C2" and press "Ok" to confirm.



Choose option NEW using keys "C1" and "C2" and press "Ok" to confirm.

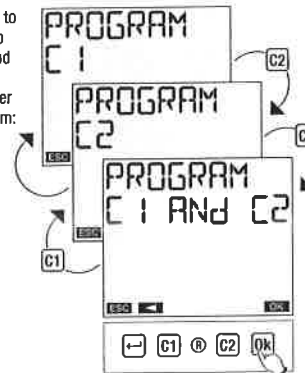


Choose which channel to enter the program onto by using keys "C1" and "C2".

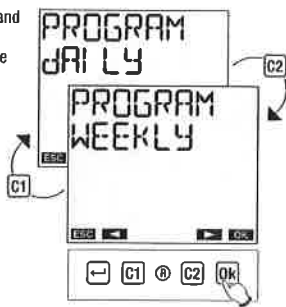
You can choose whether to carry out the program:

- On channel 1
- On channel 2
- Or both channels simultaneously.

Press "Ok" to confirm.



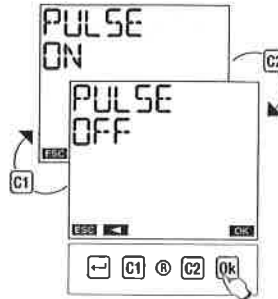
Using keys "C1" and "C2" choose the frequency of the event from:
- DAILY
- WEEKLY.
Press "Ok" to confirm.



Choose the impulse using keys "C1" and "C2" and press "Ok" to confirm.



Using keys "C1" and "C2" choose whether it is an ON impulse or an OFF impulse. Press "Ok" to confirm.



Set the date using keys "C1" and "C2" (not required for daily events). Press "Ok" to confirm.



Press "Ok" to confirm.




Enter the starting time and duration of the impulse (max 59 seconds).



Once programming is confirmed the display shows the words SAVED with the channel number concerned.

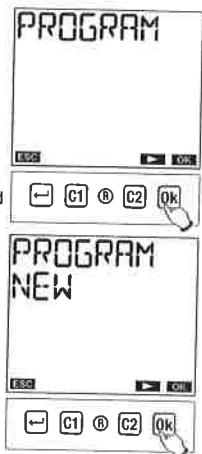


During normal operation the execution of an impulse program is shown by symbol  on field (8) of the display.

1.3 CYCLE programs ○

Press key "←" to enter the menu.
Choose the PROGRAM option using keys "C1" and "C2" and press "OK" to confirm.

Choose option NEW using keys "C1" and "C2" and press "OK" to confirm.

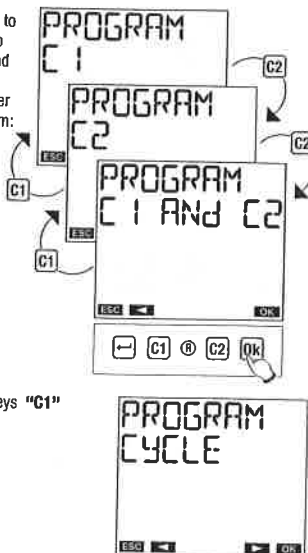


Choose which channel to enter the program onto by using keys "C1" and "C2".

You can choose whether to carry out the program:

- On channel 1
- On channel 2
- Or both channels simultaneously.

Press "OK" to confirm.

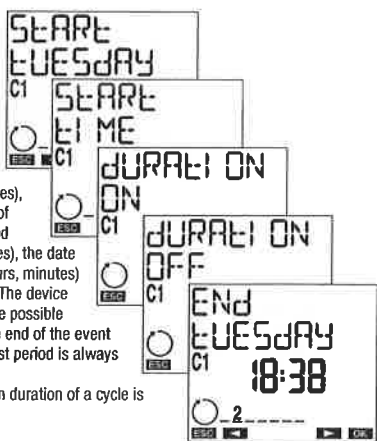


Choose CYCLE with keys "C1" and "C2".

Press "OK" to confirm.

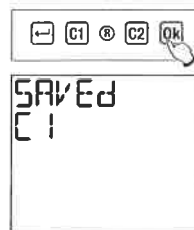


Enter the day and time (hours, minutes) of cycle start, the duration of the ON period (hours, minutes), the duration of the OFF period (hours, minutes), the date and time (hours, minutes) of cycle end. The device will give some possible values for the end of the event so that the last period is always complete. The maximum duration of a cycle is one week.



Press "OK" to confirm.

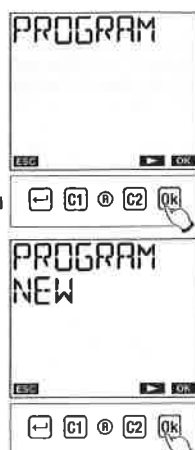
Once programming is confirmed the display will show the words **SAVED** with the channel number concerned (C1 or C2).



During normal operation the execution of a cycle program is shown by symbol ○ on field (8) of the display.

1.4 HOLIDAY program ↗

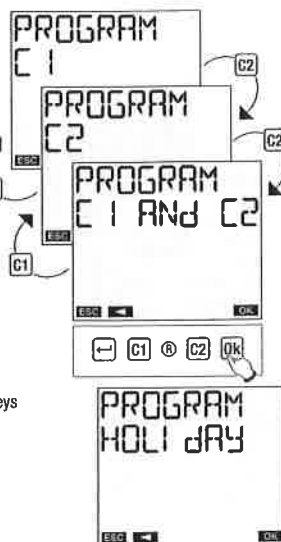
Press key "↵" to enter the menu.
Choose the PROGRAM option using
keys "C1" and "C2" and press "Ok"
to confirm.



Choose option NEW using keys "C1" and
"C2" and press "Ok" to confirm.

Choose which channel to
enter the program onto
by using keys "C1" and
"C2".

You can choose whether
to carry out the program:
- On channel 1
- On channel 2
- Or both channels
simultaneously.
Press "Ok" to confirm.



Choose HOLIDAY with keys
"C1" and "C2".

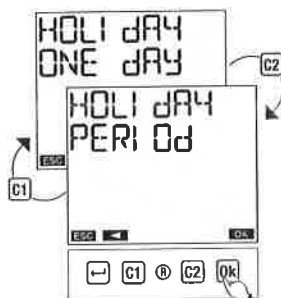
- 22 -

User manual DRT-DW2

Press "Ok" to confirm.

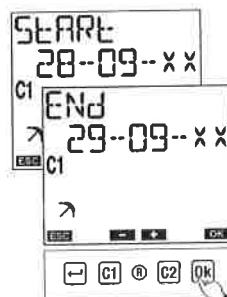


Choose
one days' holiday
or
a holiday period
using keys "C1" and "C2"



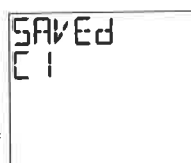
Press "Ok" to confirm.

Insert the start and end dates
required.



Press "Ok" to confirm.

As confirmation of programming the
display will show the words SAVED
with the channel concerned (C1 or C2).



During normal operation the execution of
a holiday program is shown by symbol
↗ on field (B) of the display.

- 23 -

User manual DRT-DW2

Note:

At this point the instrument activates the recursive function which allows several holiday days (or holiday periods) to be programmed in succession. If you do not wish to enter another days' holiday (or period), press key "←" to end programming.



The instrument's internal memory allows up to 30 events, 4 holiday periods and 20 holiday days to be memorised per channel.

Once maximum memory capacity is reached further attempts to memorise another program causes the display to show the message **MEMORY FULL**. In this case it is necessary to delete a program in the memory in order to enter a new one. In the case of simultaneous programming on two channels, at least one position in the memory must be available for each channel.

The message **ERROR** is shown on the display whenever there is an attempt to save a program overwriting a pre-existent program of the same type. For example trying to enter a daily off event at 08:00 if there is already a daily on event at the same time would cause an error message.

2. Checking a program

Through this menu it is possible to display, amend or delete a program saved in the instrument.

2.1 Displaying a program

Press key "←" to enter the menu and using keys "C1" and "C2" choose the **PROGRAM** option.

Press "**OK**" to confirm.

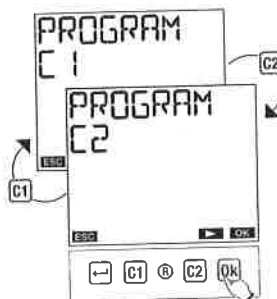


Using keys "**C1**" and "**C2**" choose **CHECK**

Press "**OK**" to confirm.



Choose the channel you wish to check the program on.



Finally, choose the frequency and type of event you wish to check using "**C1**" and "**C2**".

At this point the first program of the specified type is displayed. If more than one program is present you can scroll forwards and backwards through them by using keys "**C1**" and "**C2**".

If no program of the selected type is present, the display will show the words **EMPTY**.

2.2 Modifying a program

It is possible to modify a program from the program display menu.

Choose the program to be modified and press key **"Ok"**



Choose the **MODIFY** option using keys **"C1"** and **"C2"** and press **"Ok"** to confirm.



At this point it is possible to enter the new program parameters. The parameter under modification flashes. Use keys **"C1"** and **"C2"** to set the values and **"Ok"** to confirm or the key **"←"** to exit without modification.

At the end of the modification the words **SAVED** are displayed with the channel concerned (C1 or C2) and the instrument returns to the normal operational status once again.

2.3 Deleting a program

It is possible to delete a program from the program display status menu.



Choose the program to be deleted and press key **"Ok"**

- 26 -

User manual DRT-DW2

Using keys **"C1"** and **"C2"** choose the **DELETE** option and press **"Ok"** to confirm or key **"←"** to exit without deletion.



The display will show the words **deleted** followed by the channel concerned (C1 or C2) and the instrument returns to normal operational status once again.

Note:

In the case of **CYCLE** program, the menu sequence differs slightly. In fact in this case the first parameter of the first cycle program is displayed (start time). It is necessary to press key **"C2"** to display all the parameters relative to that program until the **"Ok"** key is enabled which allows access to the menu containing the options *modify*, *delete* and *next* (to go to the next program cycle). At this point using keys **"C1"** and **"C2"** choose the desired option and press **"Ok"** to confirm.

3. Reset all programs

To delete all the programs saved on the instrument.

Press key **"←"** to enter the menu. Choose the **PROGRAM** option using keys **"C1"** and **"C2"** and press **"Ok"** to confirm.

Choose option **RESET PROGRAM** using keys **"C1"** and **"C2"** and press **"Ok"** to confirm.

Choose **CONFIRM** and press **"Ok"**. All the programs will be cancelled.

Alternatively it is possible to reset individual programs by accessing the reset menu (see Reset menu page 36)



- 27 -

User manual DRT-DW2

SETTINGS MENU

This menu allows the instrument's settings to be displayed and modified.
The settings are:
Language, date, time, GMT/BST, casual program option and pin.

From the normal operational status
> Press key "←"

> Choose SETTINGS using keys "C1" and "C2"

> Press "OK" to confirm.



LANGUAGE menu

> Choose SETTINGS LANGUAGE using keys "C1" and "C2"
> Confirm with "OK"

> The currently set language is displayed. Press "OK" to modify:

> Choose the language using keys "C1" and "C2"

> Confirm again with "OK"

> The display will show the word **SAVE**

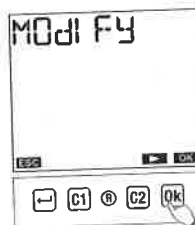


The language options are:
Italian, English, Spanish, French and German.



> Choose the date format using keys "C1" and "C2"
(dd-mm-yy or yy-mm-dd)

> Confirm with "OK"



DATE menu

> Choose SETTINGS DATE using keys "C1" and "C2"

> Confirm with "OK"

> The current date is displayed. Press "OK" to modify.



- > Enter the year, month and day using keys "C1" and "C2"
- > Press "Ok" again to confirm
- > The display will show the word **SAVED**



TIME menu

- > Choose SETTINGS TIME using keys "C1" and "C2"
- > Confirm with "Ok"
- > The current time is displayed. Press "Ok" to modify.
- > Enter hours and minutes using keys "C1" and "C2"
- > Press "Ok" again to confirm
- > The display will show the word **SAVED**

CHANGE GMT/BST menu

GMT/BST time change can be carried out automatically by the device. In this case the instrument will:

- Increases the current time by one hour when changing from GMT to BST
- Decreases the current time by one hour when changing from BST to GMT

To enable/disable the automatic time change.

- > Choose SETTING DAYL SAVE using keys "C1" and "C2"
- > Confirm with "Ok". The current status is displayed (AUTO ON or AUTO OFF)
- > Press "Ok" to modify
- > Using keys "C1" and "C2" choose whether to activate or deactivate the function
- > Press "Ok" to confirm.

If you choose AUTO OFF the display will show the word **SAVED**, otherwise the instrument remains within the menu to allow the time to be modified.

To set the date and time when the GMT/BST time change occurs:

- > Choose SETTINGS DAYL SAVE using keys "C1" and "C2"
- > Confirm with "Ok". The words **AUTO ON** appear on the display (should this not happen, see previous paragraph "Enable automatic time change")



- > Press key "C2". The time change parameters from GMT to BST appear on the display.

- > By pressing key "Ok" it is possible to modify the parameters.

The parameters to be entered are sequentially:

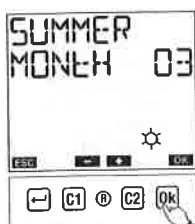
- week
- month
- day (or date)
- time

- Week of the month: first 1ST, second 2ND, third 3RD, fourth 4TH, LAST last (meant for example as the last Sunday, Monday, ...of the month) or DATE (to specify a precise date)

For example, the figure shows that the time change happens on the last (LAST) Sunday (7) of March (03) at 2 (02:00)



- Month change due to happen.



- Enter the time of the change. Press "Ok" to confirm.



- If you have chosen a specific date then the day of the week is requested. In the other cases you are asked to enter the day of the week on which the time change is to happen.

Press "Ok" to confirm



- By pressing key "C2" it is possible to set the time of the change from GMT to BST.



When all the parameters have been set, press "ESC" to exit.

Depending on the date the instrument display shows the symbol ☀ during the GMT (winter) and the ☀ symbol during the BST period (summer).



CASUAL PARAMETERS menu

This menu allows the modification of the minimum and maximum time which passes between two switchings when a casual program is activated. As default these values are set at 1 and 5 minutes.

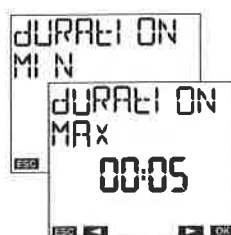
- > Choose SETTINGS RANDOM using keys "C1" and "C2"
- > Confirm with "Ok". The minimum duration value is displayed
- > Press "C2" to display the maximum duration



- > Press "Ok" to modify
- > Enter sequentially
 - Hour, minutes, minimum time
 - Hour, minutes, maximum time



- > Press "Ok" to confirm
- > The display will show the word SAVED



PROGRAM OPTIONS menu

This function allows programmed switchings to be disabled, without having to cancel them from memory. It is possible to:

- Disable on/off programs (SWI ECH)
- Disable impulse programs
- Disable cycle programs
- Disable the holiday period program (HOLI dAY P)
- Disable individual day holiday programs (HOLI dAY d)
- > Choose SETTINGS PROGRAM using keys "C1" and "C2"
- > Confirm with "Ok".
- > Choose channel "C1" or "C2" on which to work.
- > Confirm with "Ok".
- > The status is shown on the display for each type of switching (enabled or not).
- > Scroll the various types of programs using keys "C1" and "C2" and press key "Ok" to modify any of the selected parameters.
- > Once in modify, choose keys "C1" and "C2" if you want to enable or disable the switchings.
- > Press "Ok" to confirm.
- > The display will show the word **SAVED**

Note: this function allows one (or more than one) type of program to be disabled from automatic operation.

PIN menu

It is possible to set a protection pin code to stop anyone from working on the instrument.

The pin code is a number composed of 4 digits with values from 1 to 4.

To set the pin code:

- > Choose SETTINGS PIN using keys "C1" and "C2"
- > Confirm with "Ok".
- > The four digits composing the current pin code are displayed (0000 corresponds to an inactive pin)
- > Confirm with "Ok".
 - Choose MODIFY and press "Ok" to insert a new pin code. Use keys "C1" and "C2" to enter the digits for the new code one by one and "Ok" to confirm them
 - Choose RESET should you wish to deactivate the pin code request
- > Press "Ok" to confirm
- > The display will show the word **SAVED** (dELEtEd in the case of reset)

If the pin code request function is enabled then the keypad will lock after 3 minutes of inactivity. At this point pressing on the keypad again leads to a request to enter the pin code.

- 34 -

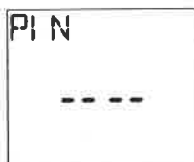
User manual DRT-DW2

To unlock the instrument enter the pin code using the keys as below:

- Key "ب": 1
- Key "C1": 2
- Key "C2": 3
- Key "Ok": 4

For example:

Pin: 3411 "C2" "Ok" "ب" "ب"



RESET SETTINGS menu

This option resets all settings relating to:

- Date format
- Automatic change GMT/BST
- Minimum and maximum time between two casual switchings
- Program options
- Pin code

To reset the settings:

- > Choose SETTINGS RESET using keys "C1" and "C2"
- > Confirm with "Ok".
- > Confirm again with "Ok"
- > The display will show the word **dELEtEd**

The factory values are then reset as below:

Date format	dd--mm--yy
Change GMT/BST	Automatic
- Change summer time	Last Sunday of March at 02:00
- Change winter time	Last Sunday of October 03:00
Casual program	
- Minimum period	1 minute
- Maximum period	5 minutes
Request PIN	0000 - deactivated

- 35 -

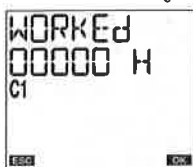
User manual DRT-DW2

METER MENU

The instrument is equipped with a function which allows load use to be calculated on a certain channel.
The counter has a range from 0 to 99999 hours. It resets automatically once the maximum limit is reached.

To display:

- Press key "ب" to enter the menu
- Choose the HOUR CNT option using keys "C1" and "C2" and press "OK" to confirm
- Using keys "C1" and "C2" choose the channel concerned and press "OK" to confirm. The total working hours are displayed.
- By pressing key "OK" you access the possibility to reset the meter: once again press "OK" to confirm or "ب" to exit without resetting.



- 36 -
User manual DRT-DW2

RESET MENU

It is possible to restore the initial status of the instrument using the reset function. 4 different resets are available:

- Reset settings: cancel all the entered settings
- Reset programs: cancel all the saved programs
- Reset meter: reset the working hours meter
- Reset all: reset settings+ reset programs + reset meter

To perform a reset:

- Press key "ب" to enter the menu
- Choose RESET using keys "C1" and "C2" and press "OK"
- Using keys "C1" and "C2" choose one of the resets functions listed above and press "OK"
- Press "OK" to confirm.

To perform a complete instrument reset, restoring the instrument to the factory conditions, you need to use a pointed object to press key "R". In this way all the settings carried out are cancelled and the initial conditions restored.

BATTERY REPLACEMENT

When the battery charge level drops below a certain level the first line of the display will show the word **BATTERY**. In this case replace the battery as soon as possible.

To replace the battery:

- Disconnect the mains
- Remove the battery slot cover, turning it anti-clockwise
- Replace the battery and replace the cover, turning it clockwise
- Connect the power supply.

In order not to lose programming and the preferred settings it is necessary to make sure that no more than 60 seconds passes between extracting the flat battery and inserting the new one.



Only use CR-2032 type batteries.
Dispose of the used batteries observing the laws in force in relation to the disposal of hazardous waste.

REFERENCE STANDARDS

Compliance with Community Directives

2006/95/EC (Low Voltage)

2004/108/EC (E.M.C.)

is declared in reference to the harmonized Standards

• **EN 60730-2-7**

- 37 -
User manual DRT-DW2