



PAKOLE

USER'S MANUAL

ADDITIONAL MANUAL FOR SETTING AND USING THE PROGRAM CLOCKS

Regulator type:

AHP-2

AHP-3

AHP-MOD

FP-3

FP-4

FP-MOD

www.pakole.com

Programorak_009_000_003_240524_V004_EN

EN

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1. SAFETY INFORMATION



ATTENTION! Read and understand this user's manual before assembling, starting, or servicing the device. The improper connection or usage can cause serious damages! Keep this manual in a safe place in order to obtain information in case of incidental problems.



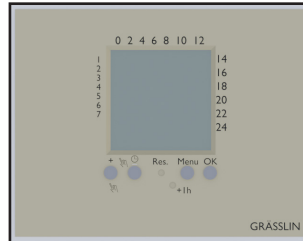
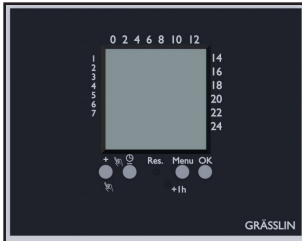
ATTENTION! If the electric cable is damaged, it must be changed by a qualified service person.



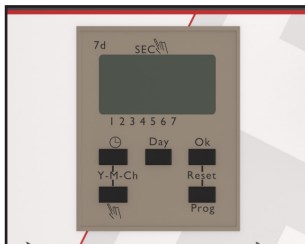
ATTENTION! These regulators have been developed for devices manufactured and distributed by PAKOLE Trade Ltd., therefore they cannot be installed in other devices due to their different technical properties.

2. IDENTIFICATION OF TIME SWITCHES

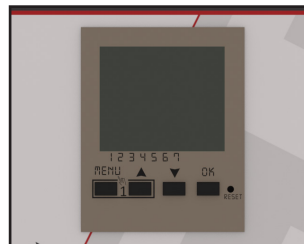
GRÄSSLIN EMD 120



PERRY 110 1081 5 BUTTONS



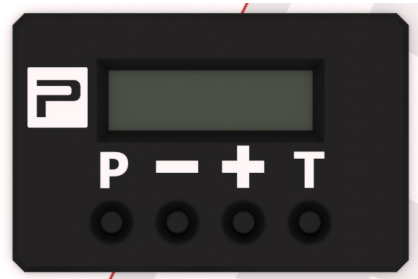
PERRY 110 1081 4 BUTTONS



BHT-002



PJG-001

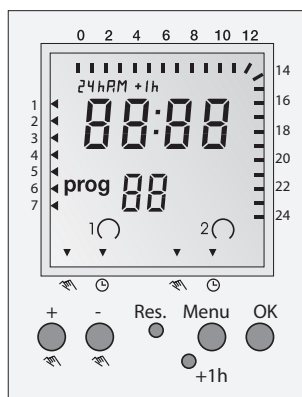


9. PROGRAMMING

TIME SWITCH: GRÄSSLIN EMD 120

DISPLAY / SWITCH BUTTONS

- I** : Overview of the daily switching program
- 24hPM** : 24 hour setting or morning / afternoon
- + / h** : Summer / winter time change
- ◀** : Display of the days of the week
- : Switching status display ON / OFF
- ⚡** : Manual operation / fixed ON / fixed OFF
- 🕒** : Automatic operation



+/- : Adjustment button : By pressing the key longer than 2 sec. you can adjust the timer in steps of 5 units (e.g. every 5 minutes)

Res. : RESET

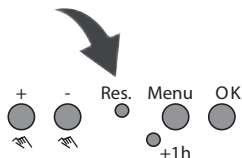
Menu : By pressing the Menu button, programming is complete and the system returns to automatic operation

OK : Program acceptance

MENU/PROGRAMS

Depending on what you prefer for the setup, you can use a preset program or specific custom programming.

Use preset programs (first time installation)



Use the RESET button to set the following values:

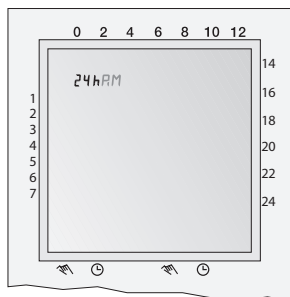
24 hours or morning / afternoon:	see page 1.
Time (hours and minutes):	see page 2.
The days of the week:	see page 2.
Preset programs from P01 to P03:	see page 2.

User-defined programming with Menu mode



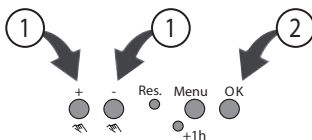
Use the Menu button to set and review the following values:

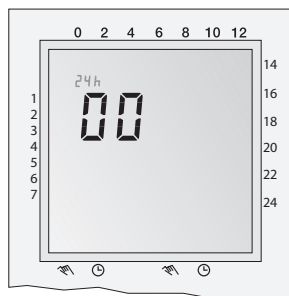
24 hours or morning / afternoon:	see page 1.
Time (hours and minutes):	see page 2.
The days of the week:	see page 2.



Set the display format to 24h or am / pm

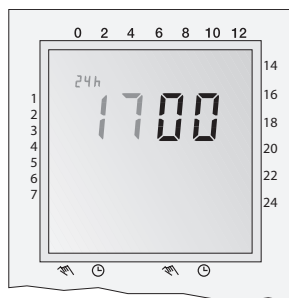
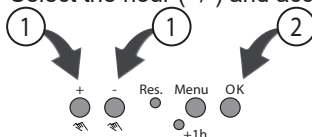
Select 24h or am / pm (+/-) and accept OK





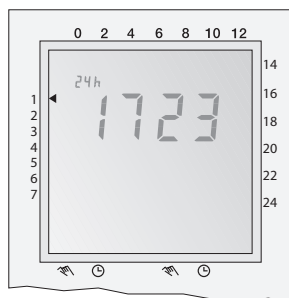
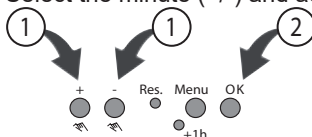
Clock settings

Select the hour (+/-) and accept



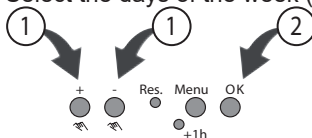
Minute setting

Select the minute (+/-) and accept **OK**



Set the days of the week

Select the days of the week (+/-) and accept **OK**

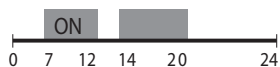


PROGRAMMING

P01 : Mo - Su, 1 x ON/OFF



P02 : Mo - Su, 2 x ON/OFF



P03 : Mo - Su, 3 x ON/OFF



Programs P 01-03

The „ON” and „OFF” switching times are preset for programs P01-P03. The user can change these programs.

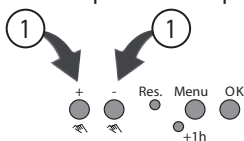
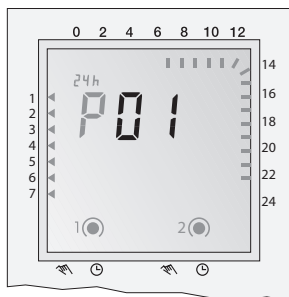
Individual program, P--

Under the optional P — program, the user has the option to create a specific program. This program can be changed at any time. 20 memory slots are available for 10 turning off and 10 turning on. You can assign days or day blocks to each memory location.

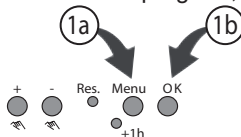
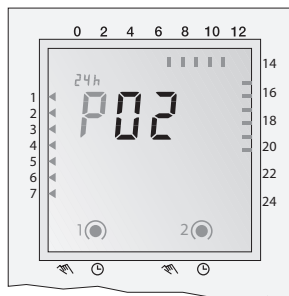
Attention: In the two-channel version, the preset program is installed on both channels.

P0X PROGRAMMING

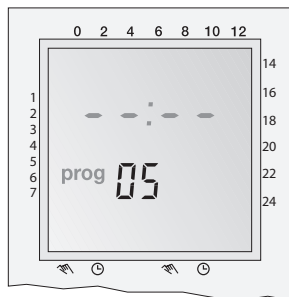
Continue after setting the time in **RESET** mode
Select a pre-created program (+/-)



After the selected program, there are two options:

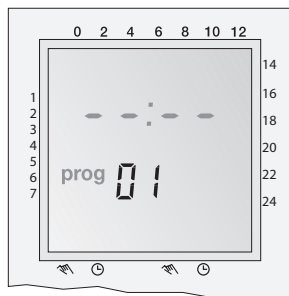


P- PROGRAMMING

**Menu: Programming over**

OK: Throughout the preset programs, you can change them (in any program, the ON or OFF times can be changed with the "+" or "-" buttons and accepted with OK) or accept it OK and move on to the next free memory location to add the new user-defined programs. (see page 4.) E.g.: After selecting P02, it is also possible to program:

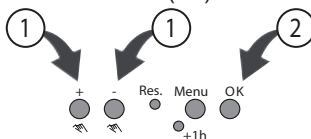
Sa (Saturday) -Su (Sunday) 22:30 ON (prog05) 23:00 OFF (prog06)



Next after setting the time and days in Menu mode or in a program added to P01 –P03.

Select program „ON” and then OK**Select clock „ON”**

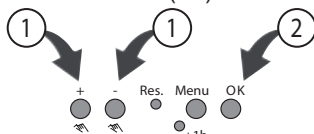
Select a time (+/-) and then OK





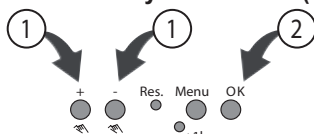
Select minute „ON”

Select a minute (+/-) and then OK



Set the day to „ON”

Select the day of the week (+/-) and then OK



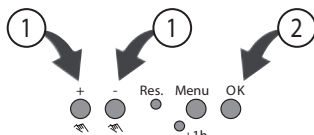
Possible day blocks and unique days

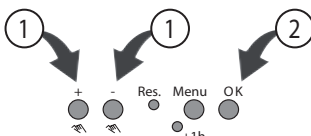
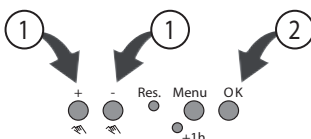
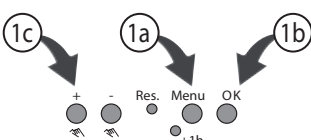
	↓	↓	↓	↓	↓
1	◀	◀	◀	◀	◀
2	◀	◀	◀		◀
3	◀	◀	◀		◀
4	◀	◀			
5	◀	◀	◀		◀
6	◀			◀	◀
7	◀			◀	◀



Set the channel (two channel version only)

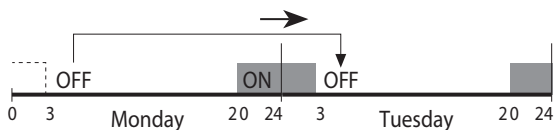
Select Ch1 or Ch2 (channel) (+/-) then OK



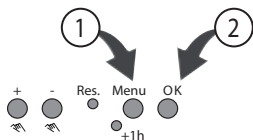
**Set the clock to „OFF”**Select the time off (+/-) and then **OK****Set the minute to „OFF”**Select the minute time (+/-) and then **OK****Set the day to „OFF”**

Select the **Menu** button if the day of „OFF” and „ON” is the same or select **OK** and go to the new program to set „ON”

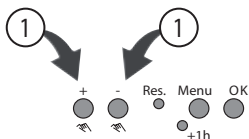
Change: If you want the „OFF” day to be the day after „ON”, select the „+” button and then **Menu** or **OK**



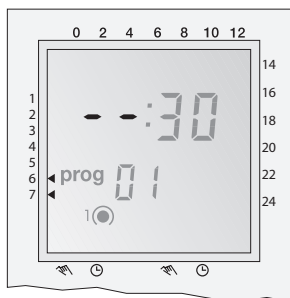
DELETING



Select the **Menu** button and then select the OK button until the „ON” time in the program you want to delete is reached.



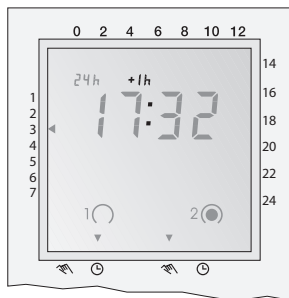
Select „-” with the (+/-) button and then OK

Attention:

The switching programs „ON-OFF” are being deleted in pairs. If you delete an „ON” instruction, the corresponding „OFF” instruction is also deleted.

SUMMER / WINTER TIME CHANGE

The „+ 1h” key can be used to change the summer / winter time



- by pressing “+ 1h” one hour can be added to the current time
- „+ 1h” is displayed on the screen
- by pressing “+ 1h” again, one hour can be subtracted from the current time

SWITCH TO AUTOMATIC OPERATION



The button „+” can be used to switch between fixed ON / OFF and automatic operation (at channel Ch1)

The „-” button can be used to switch between fixed ON / OFF and automatic operation (at channel Ch2)



TIME SWITCH: PERRY 110 1081 5 BUTTONS

1. KEY TO DISPLAY AND BUTTON FUNCTIONS

Date setting indications
Program number from P1 to P20

Action indication in seconds

Setting and display:
- year, month, day of the month
- daylight saving/standard time adjustment
- current time
- program ON and OFF time

Channel manual setting indication

Channel status during operating mode:
1 = activated 0 = deactivated
In ch5 setting (semi-automatic daylight saving/
standard time adjustment)
1 = month and day of +1 h adjustment
0 = month and day of -1h adjustment

Days of the week

Day button

Button: hour-minutes-seconds

Manual button

Program ON/OFF indication

Ok button (to confirm setting)

Prog button

Press buttons and simultaneously to insert: year, month, daylight saving/standard time adjustment program.
(combination buttons Y-M-Ch)

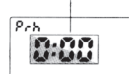
Press buttons **Ok** and **Prog** together to **reset**

Note: the following meanings are adopted in the instructions:

Characters permanently alight



Characters blinking



2. PUTTING INTO OPERATION

a) Powering up (switching on) for the first time

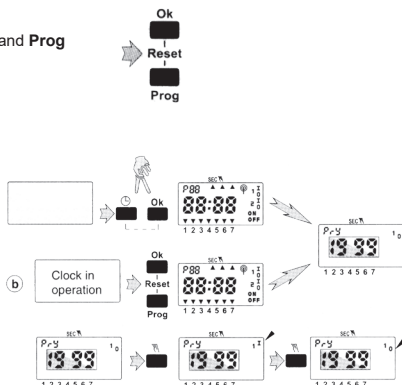
When the clock is powered up for the first time, the display will appear blank; activate by pressing buttons and **Ok** simultaneously. The appliance will run a self-test routine, following which the date can be entered.

b) Powering up subsequent to first use.

The clock will come into operation with the display activated.

To set the clock again, press **Ok** and **Prog** simultaneously (general reset).

The appliance will run a self-test routine following which the date can be entered.



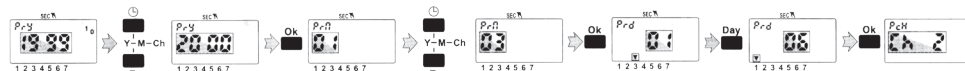
2.1 – Manual relay override

To test connections and interlocked devices before entering data, the status of the switching relay can be selected manually by pressing the button momentarily. The first entry of data thereafter will return the relay to normal status automatically.

2.2 – Current date setting (year, month, day)

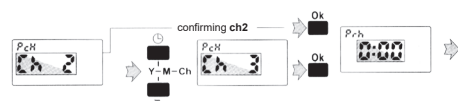
Press and simultaneously to set the year and press **Ok** to confirm. Press and (Y-M-Ch) simultaneously to enter the month and press **Ok** to confirm. Press **Day** to set the day and **Ok** to confirm (example: 06 March 2000).

Warning: pressing a button momentarily, the corresponding value increases by units; pressing and holding the button, the value is scrolled.



2.3 Selection of daylight saving/standard time adjustment program

The product is factory set on the **ch2** automatic adjustment program. To confirm program **ch2** press **Ok**. To select a different program press and simultaneously, then press **Ok** to confirm.



Important: if program **ch5** is selected and confirmed, perform the setting operations indicated in chapter 10 without delay.

Display indication	Summer adjustment + 1 hour (daylight saving)	Winter adjustment - 1 hour (standard)
ch0	None	None
ch1	Last Sunday of March	Last Sunday of September
ch2	Last Sunday of March	Last Sunday of October
ch3	Last Sunday of March	Fourth Sunday of October
ch4	Second Sunday of March	First Sunday of November
ch5	Free setting	Free setting
ch1= Europe ch2= Europe		
ch3= Great Britain ch4= North America		

2.4 Setting hour and minutes

Set the current hour and minutes using the button. After confirming with **Ok**, the operating program can be selected.



Press and hold button to select hours.
Press momentarily to select minutes.



3. PROGRAMMING

Available programs from 1 to 20 (P1 + P20)

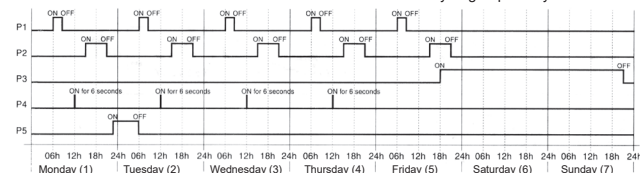
The clock is provided with a programmable output (relay with changeover contact).

Programming principle:

Set the programs (P1, P2, P3, P20) with the respective days of activity required.

A program is composed of:

- A start switching operation (**ON** = relay activated) at set time.
- An end switching operation (**OFF** = relay at rest) at set time (or duration in seconds).
- Day or group of days on which the start and end switching operations are active.



Example in figure:

P1: Monday to Friday, ON at 06:00, OFF at 08:30

P2: Monday to Friday, ON at 15:00, OFF at 21:00

P3: ON at 18:00 on Friday, OFF at 21:00 on Sunday

P4: Monday to Thursday, ON at 12:00, for 6 seconds.

P5: ON at 23:00 on Monday, OFF at 06:00 on Tuesday

3.1 Entering the program

After setting the current hour, program **P1** will appear in the display with the days of the week indicators blinking. Select the day or group of days by pressing **Day** (see GROUP OF DAYS TABLE); press **Ok** to confirm; the ON time indicator will blink. Press to enter the activation time (ON) (press and hold to set HOURS, press momentarily to set MINUTES), then press **Ok** to confirm. Program **P1** will appear in the display with the OFF time indicator blinking. Press to set the deactivation time (OFF), then **Ok** to confirm.

GROUP OF DAYS TABLE	
= All	= Saturday (6)
= Monday (1)	= Sunday (7)
= Tuesday (2)	= Monday to Thursday
= Wednesday (3)	= Monday to Friday
= Thursday (4)	= Monday to Saturday
= Friday (5)	= Saturday and Sunday



After setting program **P1**, program **P2** will appear in the display with the days of the week indicators blinking. To set program **P2** proceed as for program **P1** and so on through to program **P20**. When **P20** is confirmed (OFF time **Ok**) the appliance is in „operating status“. To quit the programming function, press **Prog** (momentarily to exit programs one by one, pressing and holding to scroll through quickly) until the current time appears, after program **P20**. All programs completed and confirmed will be stored in the permanent memory; the appliance assumes „operating status“.

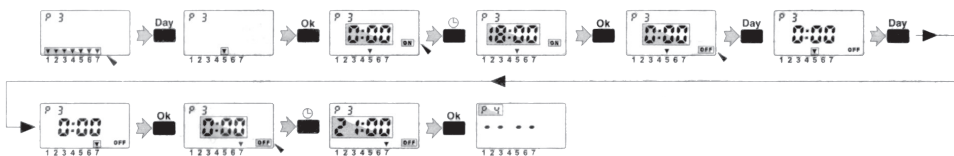
N.B.: In the event that programming operations are interrupted or programs changed, the appliance will revert automatically to „operating status“ once 2 minutes have lapsed with no buttons being pressed; only programs completed and confirmed will be stored.

3.2 Programming for a limited number of days

In this case, the day and time of activation and the day and time of deactivation must be set.

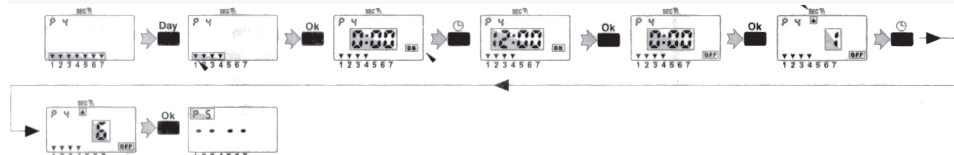
For example: program **P3** with activation on Friday at 18:00 and deactivation on Sunday at 21:00.

Warning: all other programs will be inhibited from 18:00 on Friday until 21:00 on Sunday.



3.3 Programming operations with channel activation in seconds: from 1 to 99 seconds

Using any free program, after selecting the day (or group of days), set the ON time and press **Ok** to confirm, then press **Ok** again. A small triangle will blink in the display indicating „SEC“; press **C9** to set the desired number of seconds (press and hold to scroll, press momentarily to increase by units). Press **Ok** to confirm. (e.g.: **P4** - Monday to Thursday, 6 seconds activation at 12:00)



3.4 Programming operations after midnight

Operations can be programmed to take place with deactivation of the channel (OFF) the day after activation (ON).

N.B.: this can also be done with groups of days.

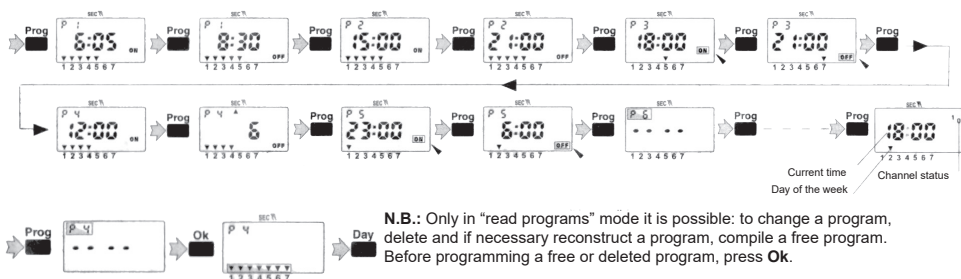
After selecting the day (or group of days), set the ON time with $\odot$ and press **Ok** to confirm; then set the OFF time with $\ominus$ (which must always be earlier than the ON time) and press **Ok** to confirm. (e.g.: **P5** - Monday, ON time = 23:00, OFF time = 6:00)



4. READ PROGRAMS FROM P1 TO P20

When the **Prog** button is pressed during operation, the "read programs" mode will be activated. Each time the **Prog** button is pressed, the display shows: program no. with days and ON activation time; then, program no. with days and OFF deactivation or duration of activation in seconds (to scroll the programs, press and hold the **Prog** button).

Warning: ON and OFF blinking indicates a program with operations alter midnight or limited number of days duration.



N.B.: Only in "read programs" mode it is possible: to change a program, delete and if necessary reconstruct a program, compile a free program. Before programming a free or deleted program, press **Ok**.

5. CHANGE PROGRAMS

To change the day or group of days, or the activation time (ON) and/or deactivation time (OFF) in a program, proceed as follows:

Press **Prog** to access "read programs" (heading 5) and search forth program to be changed, likewise using the **Prog** button. Once the program is displayed, press **Day** to change the day or group of day, then press **Ok** to confirm.

Using $\odot$ change the ON time and press **Ok** to confirm. Press **Prog** to display the "OFF" time and change as required using $\ominus$ then press **Ok** to confirm. Use **Prog** to search for another program or return to "operating status".

N.B.: to change the day and/or the OFF time only, when the program is displayed (ON time), press **Prog** to display the OFF time and make the change.

Warning: - In the case of programs set from 1 to 99 seconds, only the number of seconds can be changed. To modify these programs to a time ON/time OFF type, the existing program must first be deleted, and a new program set with ON and OFF times (and vice versa). - Changes become operative when the current minute has elapsed.

6. DELETING SET PROGRAMS

To delete a program previously set, press **Prog** to access the "read programs" mode; search for the program to be deleted, likewise using the **Prog** button, then press **Ok** and **Prog** simultaneously (Reset).

All program instructions components are cleared (days, ON time, OFF time or seconds).

To re-program, press **Ok** and enter data as indicated in chapter 4. Press **Prog** to return to "operating status".

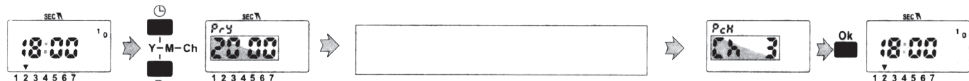


7. SETTING NEW PROGRAMS IN ADDITION TO EXISTING ONES

Remaining free programs can be utilized at a future time. Press **Prog** to access the "read programs" mode and search for a free program, then press **Ok** and program as indicated in chapter 4. Press **Prog** to return to "operating status".

8. CHANGE DATE

With the appliance in "operating status" press buttons $\odot$ and $\odot$ (Y-M-Ch) simultaneously to access the date setting mode. Proceed as indicated in headings 2.2 and 2.3 to change: year, month, day and daylight saving/standard time adjustment (these can be changed singly). From the "automatic time adjustment" parameter, press **Ok** to return to "operating status".



9. CHANGE CURRENT TIME

With the appliance in "operating status" press the $\odot$ button: the current time will blink in the display; change it pressing the button (momentarily for minutes, pressing and holding for hours). Press **Ok** to confirm the new time and return to "operating status".

10. SEMIAUTOMATIC STANDARD/DAYLIGHT SAVING TIME ADJUSTMENT PROGRAM

The daylight saving/standard time program ch5, requires setting of the date for the change from standard to daylight saving time (+ 1 hour) and from daylight saving to standard time (- 1 hour) Example: start daylight saving time= Sunday March 26. - start standard time = Sunday October 8. (ref. year 2000).

When program **ch5** is confirmed, "1" prompts on the display requiring the entry of the month for the change from standard to daylight saving time.

- Press $\odot$ and **(Y-M-Ch)** simultaneously to enter the month and press **Ok** to confirm.

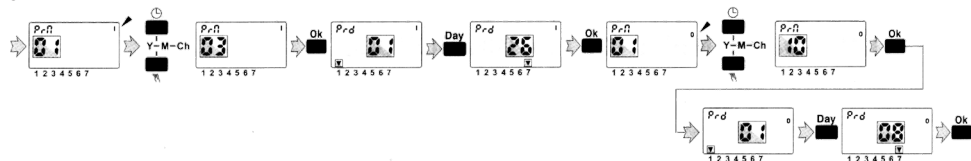
- Press **Day** to enter the day, and **Ok** to confirm.

"0" now prompts on the display requiring the entry of the month for the change from daylight saving back to standard time.

- Press $\odot$ and **(Y-M-Ch)** at the same time to enter the month and confirm by pressing **Ok**.

- Press **Day** to enter the day and **Ok** to confirm.

Continue with hour and minutes as indicated in section 2.4



11. MANUAL RELAY OVERRIDE

11.1 - Temporary manual override

With the appliance in "operating status", pressing $\odot$ (momentarily) to access "temporary manual override status" will change the channel status according to the program; if the channel was activated (ON) it becomes deactivated (OFF) and vice-versa. This condition is indicated in the display by $\blacktriangle$ below symbol $\odot$, while the channel status is indicated by 1 or 0. Pressing $\odot$ a second time, temporary channel forcing will be cleared and the appliance returns to "operating status"; the channel reverts to program status.

In any event, temporary channel override will be abandoned when the next switching operation (ON to OFF or OFF to ON) of the current program takes place.



11.2 - Permanent manual override

With the appliance in "operating status" or "temporary override status" pressing and holding $\odot$ for 5 seconds will activate "permanent manual override status". In this status, indicated by **PER**, execution of programs is suspended and the status of the channel selected by pressing $\odot$ is assumed permanently.

The channel status (indicated by 1 or 0 in the display) can be changed at any time by pressing $\odot$.

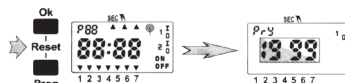
To cancel "permanent override status" and return to "operating status", press and hold the manual button for 5 seconds. The channel will revert to program status.



12. RESET

12.1 - General reset

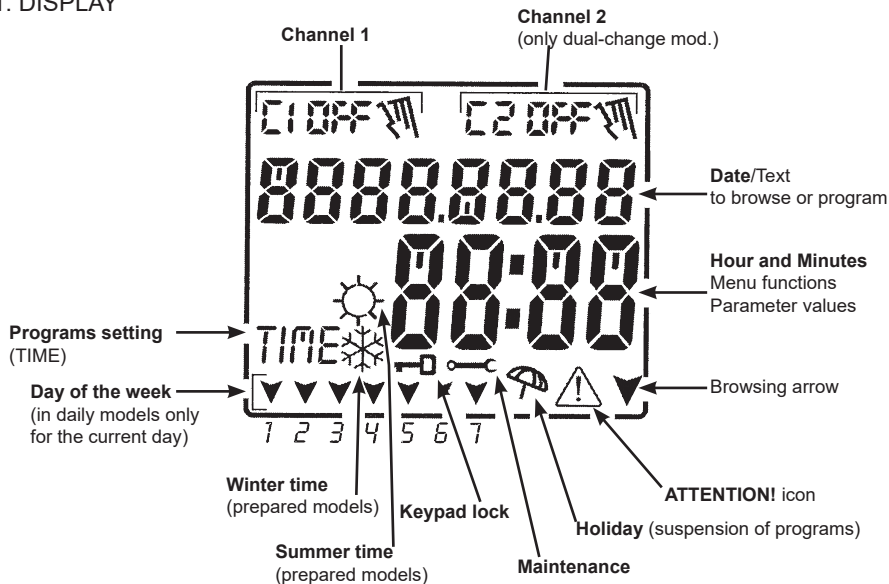
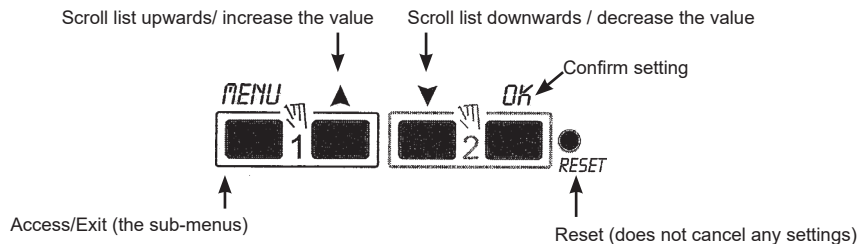
Press **Ok** and **Prog** simultaneously (**Reset** command) to activate the general **Reset**. All data in memory: date (year, month, day), current time, daylight saving/standard time adjustment program and all channel operation programs (resident in the permanent memory) will be deleted. After running the "Test" (see figure), the appliance will be ready for reprogramming (see section 2).



12.2 - Low accumulator reset

If a power supply failure lasts longer than the reserve charge time, the appliance will reset partially when powered up, deleting the date (year, month, day) and the daylight saving/standard time adjustment program; programs in the permanent memory are saved. Lost data must be reprogrammed as indicated in heading 2.

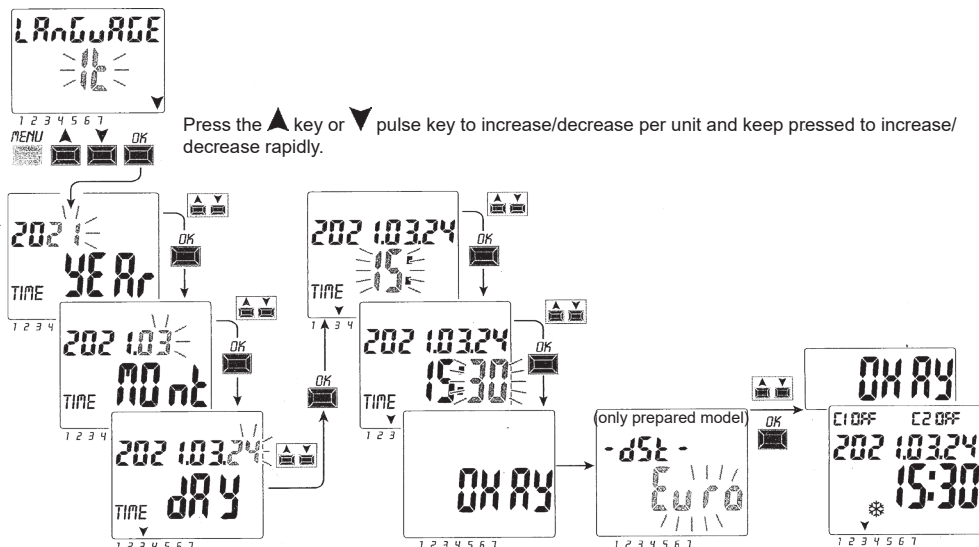
The manufacturer reserves the right to Introduce any modification without prior notice.

TIME SWITCH: PERRY 110 1081 4 BUTTONS**1. DISPLAY****2. KEYS**

FUNCTION	PRESS THE KEY COMBINATION
Lock/unlock keys ()	2 seconds
Access the <Manual> menu directly to enable/disable the temporary or permanent override.	for channel 1 for channel 2
Immediate exit from the menu or sub-menu	6 sec. until the main screen appears
In the Programs menu access the first free program that is to be set.	2 seconds
In the Programs menu, quickly deletes the selected program	press simultaneously for at least 6 seconds

3. FIRST START-UP

IMPORTANT: when programming, the settings made with the $\uparrow\downarrow$ keys must be confirmed by pressing the **OK** key, and when **OKAY** appears on the display for a few seconds, it indicates that the data have been entered correctly in the permanent memory. Otherwise, after 2 minutes (10 minutes for <program> and <hour counter> settings), the digital switch returns to the „Normal operation“ main screen and the partial changes will not be saved.

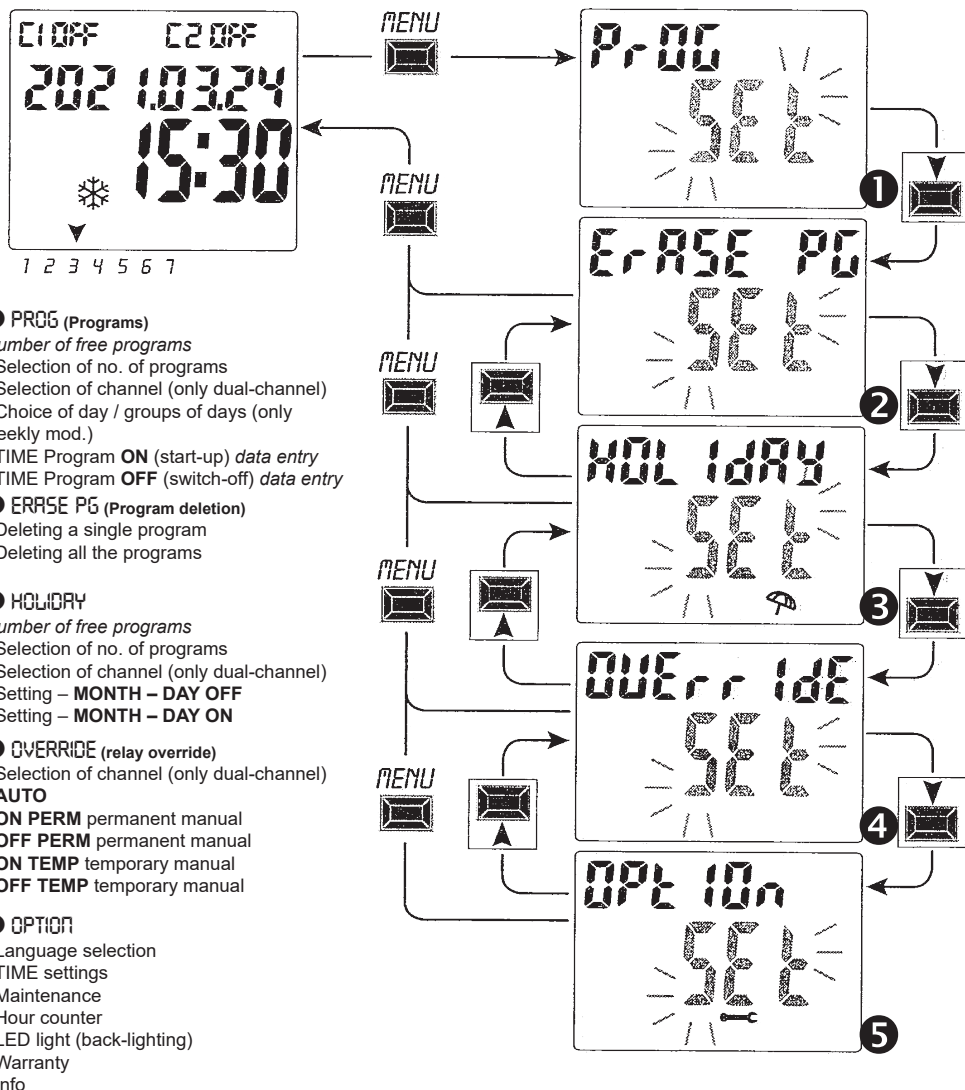


Set the summer or winter time. Select with the $\uparrow\downarrow$ keys between EURO – FREE (must be programmed) – NONE and confirm with **OK**.

Possible selections on the display	Summer changeover +1h	Winter changeover -1h
EURO (Central Europe UTC+1)	Last Sunday in March	Last Sunday in October
FREE	Month/Week/Day/Time (freely programmable)	Month/Week/Day/Time (freely programmable)
NONE	None	None

4. MENU - OVERVIEW

main screen

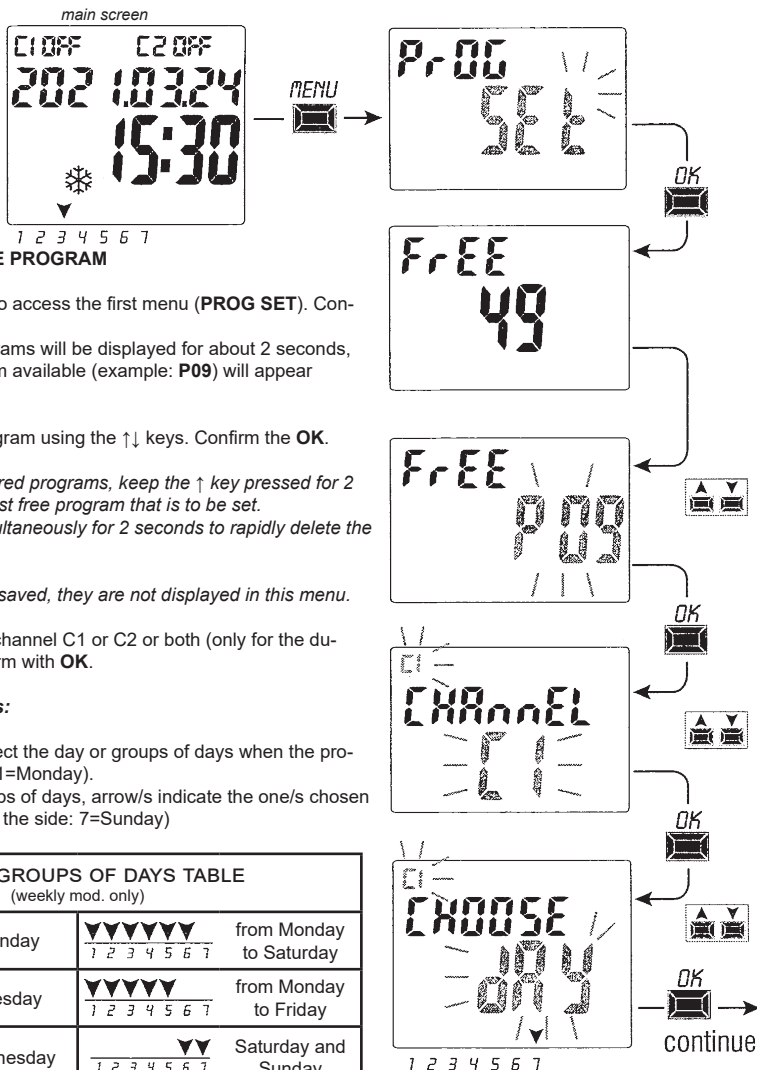
**How to select the desired menu:**

1. Press the **MENU** key. The first selectable menu appears.
2. Scroll through the various menus using the keys $\uparrow \downarrow$.
3. Confirm the desired menu with **OK**: the sub-menus and settings are accessed.

Exit or return to the previous menu or setting by pressing the **MENU** pulse key or keep it pressed to return to the main screen.

5. <PROG > MENU (PROGRAMS)

This menu allows you to create, test, modify and delete the TIME programs.



DAY OR GROUPS OF DAYS TABLE (weekly mod. only)			
∇ 1 2 3 4 5 6 7	Monday	$\nabla\nabla\nabla\nabla\nabla\nabla\nabla$ 1 2 3 4 5 6 7	from Monday to Saturday
∇ 1 2 3 4 5 6 7	Tuesday	$\nabla\nabla\nabla\nabla$ 1 2 3 4 5 6 7	from Monday to Friday
∇ 1 2 3 4 5 6 7	Wednesday	$\nabla\nabla$ 1 2 3 4 5 6 7	Saturday and Sunday
∇ 1 2 3 4 5 6 7	Thursday	$\nabla\nabla\nabla\nabla\nabla\nabla\nabla$ 1 2 3 4 5 6 7	Every day
∇ 1 2 3 4 5 6 7	Friday		
∇ 1 2 3 4 5 6 7	Saturday		
∇ 1 2 3 4 5 6 7	Sunday		

TIME ON program:

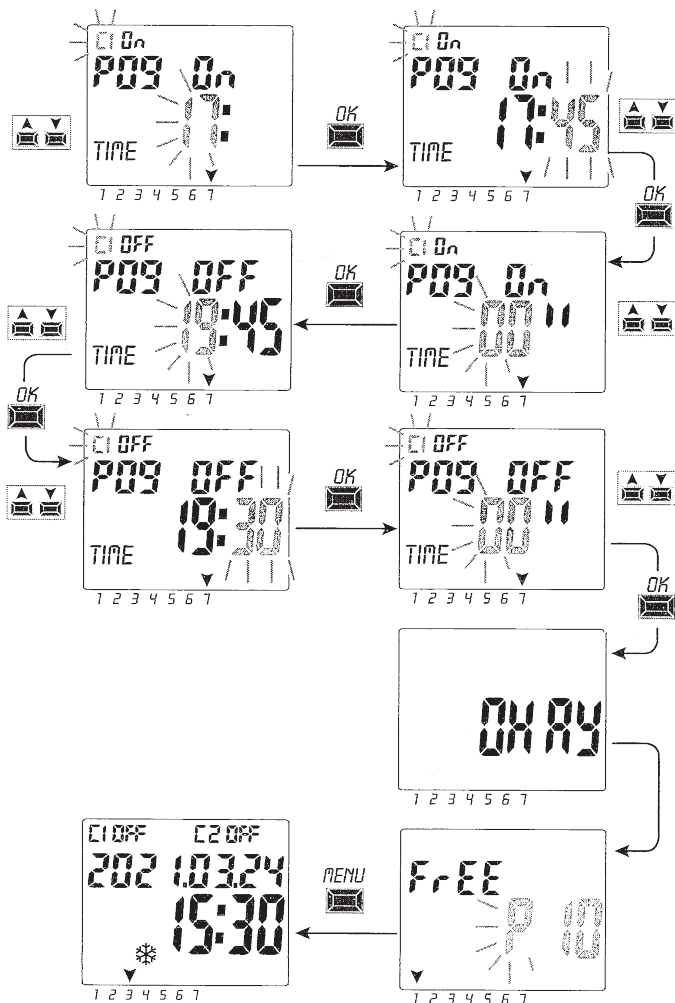
5. Use the ↑↓ keys to enter the start-up time ON (default 00). Confirm with **OK**.
6. Use the ↑↓ keys to enter the minutes (default 00). Confirm with **OK**.
7. Use the ↑↓ keys to enter the seconds (default 00). Confirm with **OK**.

TIME OFF program:

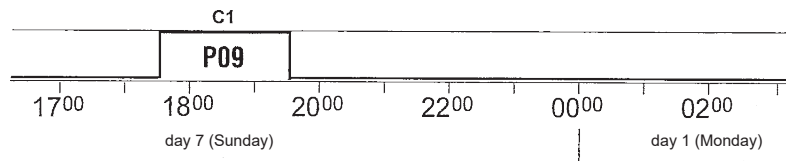
8. Use the ↑↓ keys to enter the OFF time. Confirm with **OK**.
9. Use the ↑↓ keys to enter the minutes. Confirm with **OK**.
10. Use the ↑↓ keys to enter the seconds. Confirm with **OK**.

The display first shows **OKAY** and immediately after the number of free programs left and then the first free program available. Set a new program or press the **MENU** key to exit. The display shows the main screen (normal operation)

Attention: the programming of **TIME ON** and **TIME OFF** cannot be if they are the same, by pressing **OK** the display shows for a few seconds the message **Err** the device proposes **TIME OFF** to be modified.



Example: P09 TIME program of channel 1 (C1)
day 7 (Sunday) switch-on ON at 17:30 – switch-off OFF at 19:30



VISUALIZING OR MODIFYING A TIME PROGRAM ALREADY SAVED

You can view or edit a previously saved program, as already described in paragraph 5.

6. FORCING AND PROGRAM PRIORITY

A priority is assigned for each type of program/function as show on the right. The output relay/s will be activated according to the set priorities.

IMPORTANT: all programs (TIME) entered are simultaneously active regardless of their position; in the case of overlapping commands on the same output, this is activated or remains enabled On if at least one program is commanding it. (OR LOGIC)

MAXIMUM PRIORITY

Permanent or temporary manual override

Holiday Programs

TIME Programs

6.1. PROGRAMMING EXAMPLE DAILY MODEL

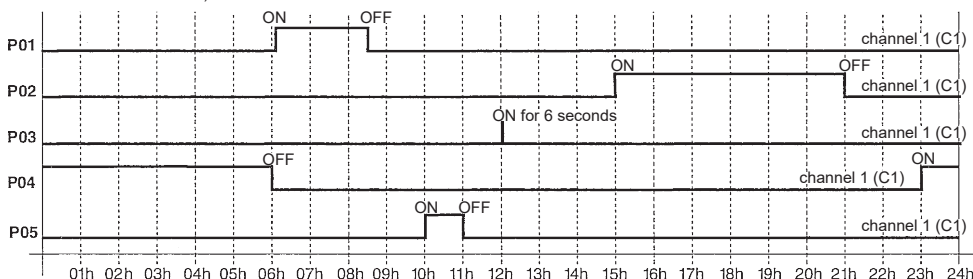
P01=C1: ON at h 06:05, OFF at h 08:30.

P02=C1: ON at h 15:00, OFF at h 21:00.

P03=C1: ON at h 12:00, for 6 seconds.

P04=C1: ON at h 23:00, OFF at h 06:00 of the next day

P05=C1: ON at h 10:00, OFF at h 11:00



6.2. PROGRAMMING EXAMPLE WEEKLY MODEL

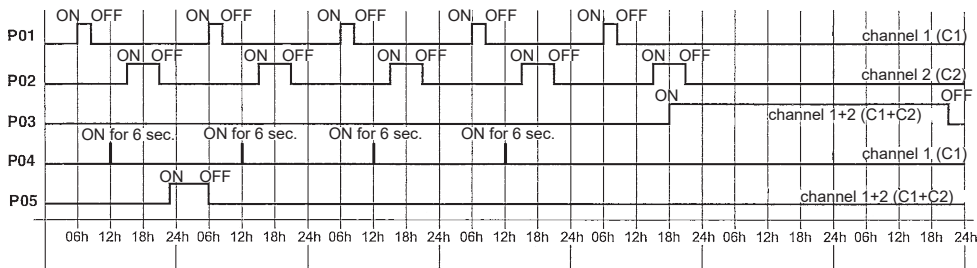
P01=C1: from Monday to Friday, ON from h 06:05, OFF at h 08:30.

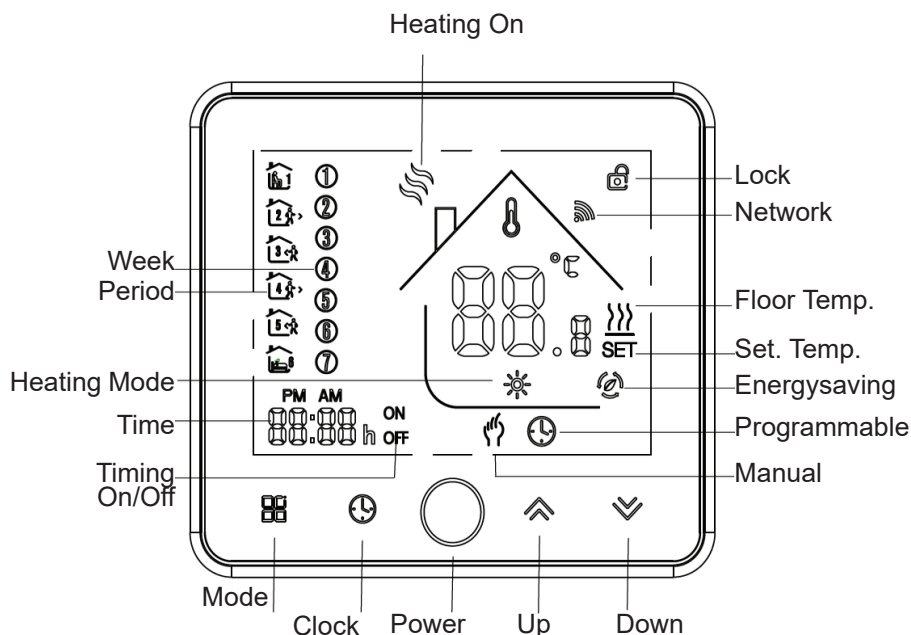
P02=C2: from Monday to Friday, ON from h 15:00, OFF at h 21:00.

P03=C1+C2: ON from h 18:00 on Friday, OFF at h 21:00 on Sunday.

P04=C1: from Monday to Thursday ON at h 12:00 for 6 sec.

P05=C1+C2: ON from h 23:00 on Monday, OFF at h 06:00 on Tuesday.



TIME SWITCH: BHT-002**OPERATION DURING POWER ON**

Power On/Off: Press to turn the thermostat on/off.



Manual & Programmable: Touch (mode) to change between manual mode and programmable mode. In the manual mode, a hand will display in the bottom of the screen. In programmable mode, the Period icon will show on the left side.



Setting temperature: In the mode of programmable, set temperature, time and timing on/off could not be adjusted. If the user want to change, please go to manual mode or change in programmable mode. In the mode of manual, press up/down button to set the desired temperature.



Adjusting/Setting the Clock: touch the Clock button to set minute, hour and week-day (1=Monday, 2=Tuesday, etc.) by using up/down buttons. Press Clock button once more to confirm and exit.

Locking your Thermostat: Press and hold the up and down button for 5 seconds to lock/unlock your thermostat. See Settings item 3 for the full or half lock.

ADJUSTING/SETTING THE PROGRAM SCHEDULES



Setting the programme schedule through your thermostat can only be carried out if there is no Wi-Fi connection between your thermostat and smartphone/tablet.

Touch the Mode button to change between manual mode and programme mode. In the manual mode a hand will display in the bottom of screen. In programme mode, touch and hold the Clock button until the weekday schedule settings appear (1 2 3 4 5 will show along the left side).

Use the up/down arrows to adjust the on time.

Press the Clock button and adjust the up/down arrows to set the off time (2nd period).

Press the Clock button and adjust the up/down arrows to set the temperature.

Repeat this process for periods 3 4 and 5 6.

Press the Clock button once more to enter the Saturday schedule settings (6 will show along the left side).

Repeat the above process to set the period and temperature and Sunday schedule.

Press the Clock button once more to confirm and exit.

Default settings for program schedule

Time display	Weekday (Monday–Friday) (1 2 3 4 5 shows on display)		Weekend (Saturday) (6 shows on display)		Weekend (Sunday) (7 shows on display)	
	Time	Temperature	Time	Temperature	Time	Temperature
Period 1	06:00	20 °C	06:00	20 °C	06:00	20 °C
Period 2	08:00	15 °C	08:00	20 °C	08:00	20 °C
Period 3	11:30	15 °C	11:30	20 °C	11:30	20 °C
Period 4	13:30	15 °C	13:30	20 °C	13:30	20 °C
Period 5 (1+2)	17:00	22 °C	17:00	20 °C	17:00	20 °C
Period 6 (3+4)	22:00	15 °C	22:00	15 °C	22:00	15 °C

A separate schedule may be set for weekdays (Mon–Fri) and for weekends (Sat and Sun).

CHECKING THE TEMPERATURE OF FLOOR SENSOR

Press and hold the down arrow for 5 seconds to display the temp. of floor sensor.

SETTING THE FUNCTIONS AND OPTIONS DURING POWER OFF

When power is off, press and hold Mode and Clock button at the same time for 5 seconds in order to reach system function. Then press Mode button to scroll through the available functions and use the up/down arrows to change the available options. All settings are confirmed automatically.

Code	Function	Settings and options	Default
1	Temperature compensation	-7 ~ +7 °C (for internal sensor)	-1
2	Deadzone temperature	1 ~ 5 °C	1
3	Button locking	00: All buttons are locked except Power 01: All buttons are locked	01
4	Sensor types	In: Internal sensor (to control or limit the temp.) Ex: External sensor (to control or limit the temp.) Ou: Only external sensor AL: Internal/External sensor (internal sensor to control the temp., external sensor to limit the temp.)	AL
5	Min. set temp.	5 ~ 15 °C	05
6	Max. set temp.	15 ~ 45 °C	35
7	Display mode	00: Display both set temp. and room temp. 01: Display set temp. only	00
8	Low temperature protection setting	0 ~ 10 °C	00
9	High temperature protection setting	25 ~ 70 °C	45
A	Economy mode	00: Non-energy saving mode 01: Energy saving mode	0
B	Economy temp.	0 ~ 30 °C	20

TIME SWITCH: PJG-001**Features:**

- Clock power supply: CR2032 Lithium battery
- Clock retention without power supply: ~5 years.
- Low battery indicator.
- Number of programs: 5 program groups.
- 10 on and 10 off times per program.
- The set programmes are never forgotten by the clock.
- Operating modes: - Manual OFF, Manual ON, and Program mode.

MODE AND PROGRAM SELECTION

The main screen shows the current time (hour:minute), the day of the week on the top line and the current operating mode and status on the bottom line.

The operational status is indicated by the circle at the bottom right:

- Empty circle (○): Off state
- Full circle (●): On state

You can switch between modes by pressing the “-” and “+” buttons once on the main screen:

- **Program mode** (between 1-5 programmes)



- **Manual OFF** (manual control, always off the appliance)



- **Manual ON** (manual control, always on the appliance)

**LOW BATTERY INDICATOR**

When the voltage of the CR2032 3V lithium battery drops below 2.5V, the battery symbol with exclamation mark on the left side of the display flashes.

In this case, replace the CR2032 battery at the bottom of the programmer clock, then reset the exact time and day.



SET TIME

Press and hold the “T” button for 3 seconds to enter the clock setting menu.

The top line of the display shows the current time in *hour:minute - week day* format.

The value to be set (hour, minute, day) has an inverse background.

The value can be increased or decreased by pressing the “-” and “+” buttons, while the variables can be moved left or right by pressing the “P” and “T” buttons.

13:56 - Wed
SET Hour

13:56 - Wed
SET Minute

13:56 - Wed
SET Day

Nap: „Mon” - Monday, „Tue” - Tuesday, „Wed” - Wednesday, „Thu” - Thursday,
„Fri” - Friday, „Sat” - Saturday, „Sun” - Sunday.

To save changes, press and hold the “T” key for 3 seconds, then the display show the main screen again.

To discard changes, press and hold the “P” button for 3 seconds, or it will automatically return to the main screen after 30 seconds without saving changes.

SET PROGRAM

Press and hold the “P” button for 3 seconds to enter the program setup menu.

On the “SET PROGRAM:” screen, you can select from 1 to 5 programs by pressing the “-” and “+” buttons, and enter the program group by pressing the “P” and “T” buttons.

SET PROGRAM:
[1]

The top line of the display shows the days of the week, the bottom line shows the selected program, e.g. “P1”, followed by the “ON” or “OFF” time (1-20) and the time (*hours:minutes*).

You can increase or decrease the value by pressing the “-” and “+” buttons, while you can move between the variables by pressing the “P” and “T” buttons.

MO TU WE TH FR SA SU
P1: 01 ON: 00:00

MO TU WE TH FR SA SU
P1: 01 ON: 00:00

MO TU WE TH FR SA SU
P1: 01 ON: 00:00

MO TU WE TH FR SA SU
P1: 01 ON: 00:00

Multiple days can be set with the “-” and “+” buttons, the active days are displayed in inverse and the cursor is indicated by a thin frame.

To save changes, press and hold the “T” key for 3 seconds, then the display show the main screen again.

To discard changes, press and hold the “P” button for 3 seconds, or it will automatically return to the main screen after 30 seconds without saving changes.

This image shows a full page of dot grid paper. The grid consists of small, evenly spaced dots arranged in horizontal and vertical rows, creating a pattern of squares across the entire surface. There are no margins, text, or other markings present.

[illegible]

4. OTHER INFORMATIONS

For multi-channel time switch, only the first channel is used (C1), nothing is connected to the second channel, it is not worth programming them.

The controllers which using the Perry time switch must be powered for 24 hours to charge the program clock battery.

Controllers must be kept powered continuously because the time switch' battery can only last a few hours without power, and without power for several weeks or months, the battery will permanently die and no adjustments can be made.

If the controller forgets the settings, the exact time or starts randomly switching on the heating after only a few minutes or a few hours of power failure, it is likely that the battery is dead. In such a case, contact the service or retailer from whom you bought the appliance, as the battery can only be replaced and the settings reset by the manufacturer of the regulator.

The time switch run on battery power and are also used to bridge power outages. These batteries have a lifespan of approx. 4-6 years. After this time, you will need to replace either the entire time switch or the inner battery, otherwise the time switch will not work. Batteries are considered hazardous waste and must be stored in a separate container.

If you have a technical error or question, please contact the your distributor.

This image shows a full page of dot grid paper. The grid consists of small, evenly spaced dots arranged in horizontal and vertical rows, creating a pattern of squares across the entire surface. There are no margins, text, or other markings on the page.



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