caring for the environment

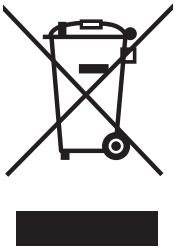
Installation, use and programming manual

PDG control panel

Modbus control panel for e-NextPro system management

suitable for wall mounting

DISPOSAL
The appliance and all its accessories must be disposed of separately in accordance with the regulations in force.



Use of the WEEE symbol (Waste Electrical and Electronic Equipment) indicates that this product cannot be disposed of as household waste. Proper disposal of this product helps to prevent potential negative consequences for the environment and human health.

Revision: A
Code: D-LBR903EN - FW: 15.00.018

TABLE OF CONTENTS

I INTRODUCTION

Installation, use and programming manual

This Manual is an integral part of the PDG control panel and must be delivered to the end user together with the control panel.

I.1 RECIPIENTS

This Manual is intended for:

- End user, for appropriate and safe use of the control panel.
- Qualified installer, for correct control panel installation.

I.2 AVAILABLE LANGUAGES

This document is originally written in Italian and English. Any other languages are translations of this document.
For versions of this document in other languages, see Robur website.

II SYMBOLS AND DEFINITIONS

II.1 KEY TO SYMBOLS

DANGER

WARNING

NOTE

PROCEDURE

REFERENCE (to other document)

II.2 TERMS AND DEFINITIONS

Fan heater/Indoor module = equivalent terms used to designate the e-NextPro 40 appliance to be installed inside the room to be air-conditioned.
BMS (Building Management System) = plant or building supervisor controller not supplied by Robur.
TAC = Robur authorized Technical Assistance Centre.
Heat pump/Outdoor module = equivalent terms, both used to designate the part of the e-NextPro 40 appliance to be installed outside the room to be air-conditioned.
First start-up = appliance commissioning operation which may only and exclusively be carried out by a TAC.
PDG control panel/appliance = Robur control device that integrates the functions of room temperature control, remote control and reporting of any anomalies of a Robur e-NextPro 40 appliance.

III WARNINGS

III.1 GENERAL AND SAFETY WARNINGS

Installer's qualifications

Installation must exclusively be performed by a qualified firm and by skilled personnel, with specific knowledge of electrical systems, in compliance with the laws in force in the Country of installation.

Misuse

The appliance must be intended only for the purpose for which it is designed. Any other use is considered dangerous. Incorrect use may affect the operation, durability and safety of the appliance. Follow the manufacturer's instructions.

Use of the appliance by children

The appliance can be used by children over 8 years old and by people with reduced physical, sensory or mental capabilities or lack of experience or knowledge only if they are under surveillance or after they have received instructions regarding safe use of the appliance and understand the dangers inherent in it. Children should not play with the appliance.

Electrocution hazard

- Disconnect the electrical power supply before any operation on appliance components.
- For electrical connections use only compliant components and according to the specifications provided by the manufacturer.
- Ensure the appliance cannot be accidentally switched back on.

Earthing

Electrical safety depends on effective earthing system, correctly connected to the appliance and installed according to the regulations in force.

In the event of failure

Operations on internal components and repairs may exclusively be carried out by a TAC, using only original spare parts.

- In the event of failure of the appliance and/or breakage of any component, do not attempt to repair and/or restore and immediately contact the TAC.

Decommissioning and disposal

If the appliance is to be disposed of, contact the manufacturer for its disposal.

Keep the Manual

This Installation, use and programming manual must always accompany the appliance and must be handed to the new owner or installer in the event of sale or removal.

III.2 COMPLIANCE

III.2.1 EU directives and standards

The PDG control panel complies with the essential requirements of the following Directives:

- 2011/65/EU "Restriction of the use of certain hazardous substances in electrical and electronic equipment"
- 2014/30/EC "Electromagnetic Compatibility Directive" as amended and added.
- 2014/35/EC "Low Voltage Directive" as amended and added.

Furthermore, they comply with the requirements of the following standards, as far as they are applicable to the manufacturer:

- EN 50581 "Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances".
- EN 55014-1 "Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission".
- EN 55014-2 "Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard".
- EN 61000-6-1+A1/AC "Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments".
- EN 60730-1 "Automatic electrical controls for household and similar use - Part 1: General requirements".

III.2.2 Other applicable provisions and standards

The design, installation, operation and maintenance of the systems must be carried out in compliance with current applicable regulations, depending on the Country and location, and in accordance with the manufacturer's instructions. In particular, regulations regarding the following must be observed:

- Electrical systems and equipment.
- Fire safety and prevention.
- Any other applicable law, standard and regulation.

III.3 EXCLUSIONS OF LIABILITY AND WARRANTY

The manufacturer declines any contractual or extra-contractual liability for any damage caused by incorrect installation and/or improper use and/or failure to comply with regulations and with the manufacturer's directions/instructions.

In particular, the warranty on the appliance may be rendered void by the following conditions:

- Incorrect installation/power supply.
- Misuse.
- Alteration or modification of the product or any part thereof.
- Extreme operational conditions or however outside of the operational fields envisaged by the manufacturer.
- Damages caused by external agents present in the air of the installation site.
- Abnormal actions transmitted to the appliance by the plant or installation (mechanical stresses, pressure, vibrations, thermal expansion, electrical surges...).
- Accidental damages or due to force majeure.

1 FEATURES AND TECHNICAL DATA

Correct installation of the PDG control panel and of the e-NextPro appliance connected to it is not possible without consulting the installation manual included with the appliances and the instructions given below.

1.1 FEATURES

The PDG control panel is an optional control device that allows complete control of a single e-NextPro appliance.
It features a 132x64 pixel backlit display and a 6-key keyboard.
It can only be mounted on the wall.
The main functions are:

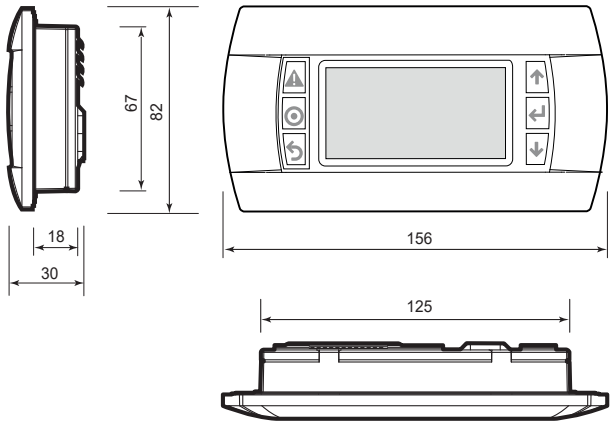
- ► Adjustment and control of an e-NextPro appliance.
- ► Data display and parameters setting.
- ► Time programming.
- ► Optimisation of energy consumption.
- ► Diagnostics.
- ► Error reset (where possible).

The connection with the e-NextPro appliance takes place through an appropriate telephone serial cable (available as optional OCVO016, length 20 m).
The PDG control panel acts as an interface for the electronic board on board the e-NextPro appliance, in which the software that manages the functionality and safety of the appliance resides.
The following are supplied with the PDG control panel:

- ► 2 long round headed screws with the relative wall plugs for fixing the control panel to the wall
- ► 2 long round headed screws for fixing the control panel to the electrical panel
- ► 2 short screws with countersunk head for fixing the control panel to the electrical panel

1.2 DIMENSIONS

Figure 1.1 *PGD control panel dimensions*



1.3 CONNECTIONS

The PDG control panel has a rear socket for a telephone cable with RJ12 plug.

1.4 TECHNICAL DATA

Table 1.1 *Technical data*

Display	
Type	FSTN graphic
Backlight	White LEDs
Graphic resolution	132x64 pixel
Text modes	8 rows x 22 columns (font 5x7 and 11x15 pixels)
	4 rows x 11 columns (font 11x15 pixels)
	or mixed modes
Font height	3,5 mm (font 5x7 pixel)
	7,5 mm (font 11x15 pixel)
Active area size	66x32 mm
Visual area size	72x36 mm
Power supply	
Voltage	power from the electronic board of the heat pump via telephone cable with RJ12 male plug
Maximum power consumption	0,9 W
Maximum distances	
Distance from the electronic board	30 metres with a phone cord
Materials	
Transparent front	transparent polycarbonate
Anthracite grey rear container	polycarbonate + ABS
Keyboard	silicone rubber
Transparent slide/frame	transparent polycarbonate
Self-extinguishing	V0 on transparent front and rear container
	HB on silicone keyboard and remaining details
General	
Protection rating	IP40 with wall mounting
	UL type 1
Operating condition	room temperature -20 ÷ 60 °C, 90% RH non condensing

Storage condition	room temperature -20 ÷ 70 °C, 90% RH non condensing
Software class and structure	A
Classification according to the degree of protection against electric shock	to be incorporated in class I or II appliances
PTI of insulation materials	PCB PTI 250 PTI 175 insulation materials
Electrical stress period	long
Heat and fire resistance category	D
Immunity against surges	Category II
Environmental pollution	2

2 INSTALLATION

2.1 WARNINGS

Read the warnings in Chapter III *p. 4*, providing important information on regulations and on safety.

Compliance with installation standards

Installation must comply with applicable regulations in force, based on the installation Country and site, in matters of safety, design, implementation and maintenance of electrical systems.

Installation must also comply with the manufacturer's provisions.

Live components

After placing the appliance in the final position, and prior to making electrical connections, ensure not to work on live components.

Earthing

The appliance must be connected to an effective earthing system, installed in compliance with regulations in force.

Cable segregation

Keep power cables physically separate from signal ones.

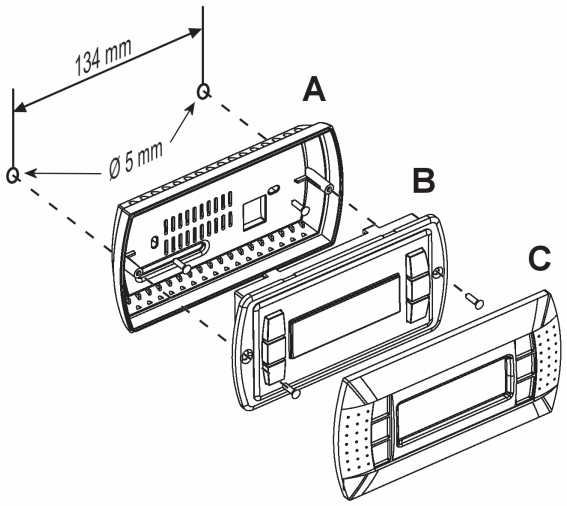
2.2 INSTALLATION

2.2.1 Wall

For wall mounting (Figure 2.1 *p. 7*):

1. Make the holes in the wall Ø 5 mm and fit the wall plugs supplied.
2. Connect the telephone cable from the electronic board of the e-NextPro heat pump module on the back of the PDG control panel.
3. Fix the rear container A using the round headed screws supplied, paying attention to the passage of the telephone cable.
4. Fix the front part B to the rear container A using the countersunk screws supplied.
5. Install the snap frame C over the front B.

Figure 2.1 *Fixing the PGD control panel to the wall*



A. Rear container
B. Front
C. Snap frame

2.2.2 Panel-mounted

For electrical panel mounting (Figure 2.3 *p. 8*):

1. Make a recess in the electrical panel measuring 127x69 mm and two 4 mm circular holes (Figure 2.2 *p. 7*).
2. Insert the front part B into the recess.
3. Connect the telephone cable from the electronic board of the e-NextPro appliance to the back of the PDG control panel.
4. Fix the front part B to the electrical panel using the countersunk screws supplied.
5. Install the snap frame C over the front B.

Figure 2.2 *PGD recess dimensions in the electrical panel*

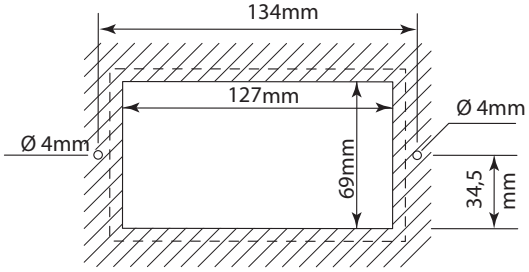
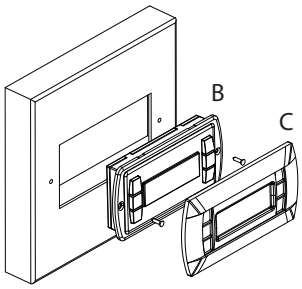


Figure 2.3 *Fixing the PGD control panel to the electrical panel*



B. Front **C.** Snap frame

2.3 ELECTRICAL CONNECTIONS

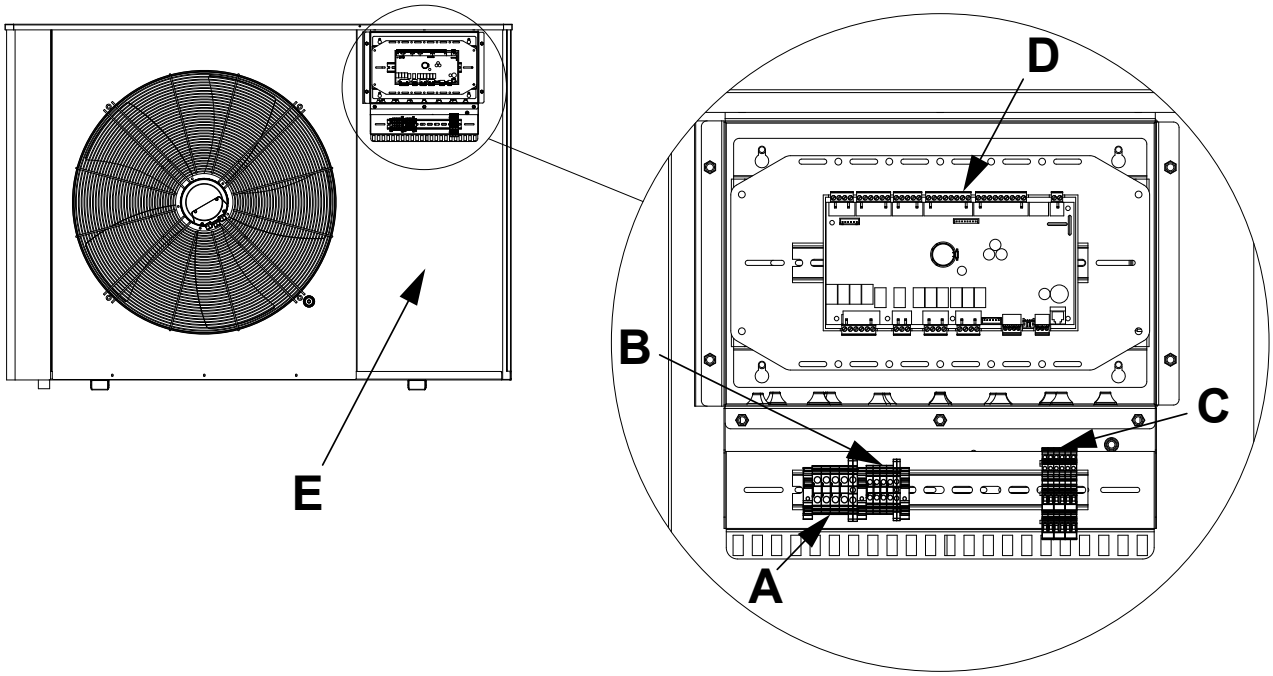
The only electrical connection to be made, which provides both the power supply and the exchange of information with the electronic board of the e-NextPro appliance, is the connection of the telephone cable, available as option OCVO016, length 20 m.

How to make connections

The connection must be made between the appropriate RJ12 sockets for telephone cable on the electronic board of the e-NextPro appliance and on the back of the PDG control panel:

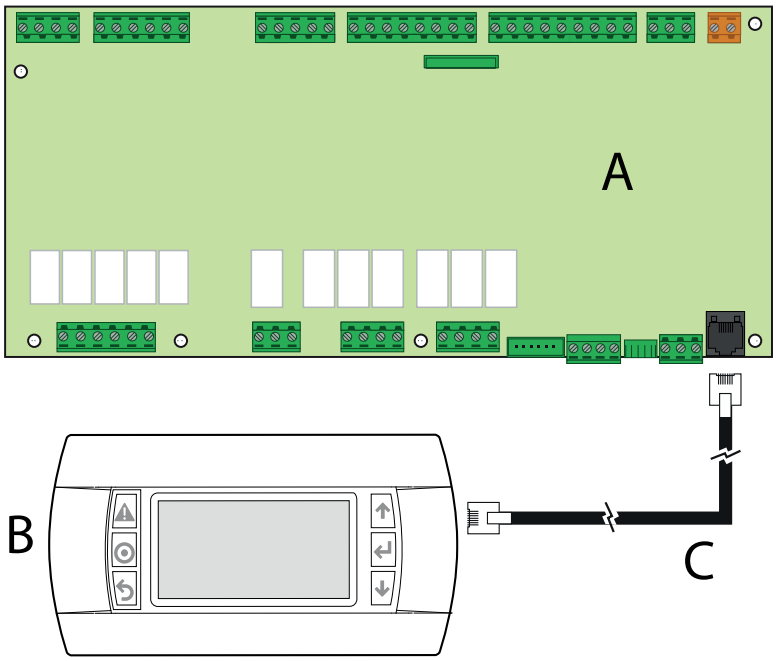
1. Ensure the appliance is not live.
2. Remove the front panel of the e-NextPro appliance (detail E, Figure 2.4 *p. 8*) and the cover of the electrical panel.
3. Locate the electronic board (detail D, Figure 2.4 *p. 8*).
4. Access the RJ12 socket at the back of the PDG control panel (detail B, Figure 2.1 *p. 7*)
5. Make the connections using the telephone cable as in Figure 2.5 *p. 9*.
6. Reposition the front and snap frame of the PDG control panel.
7. Close the electrical panel of the e-NextPro appliance and reassemble the front panel, covering the access holes to the fixing screws with the appropriate closing caps.

Figure 2.4 *Electrical panel detail of the outdoor module (heat pump)*



A Outdoor module power supply terminal block
B Indoor module electrical panel power supply
terminal block
C Indoor module signal terminal block
D Outdoor module electronic board
E Outdoor module front panel

Figure 2.5 *Connecting the PGD control panel via telephone cable*



A Electronic board on board the heat pump
B PGD control panel
C Connection telephone cable (optional OCVO016, length 20 m)

3 FIRST START-UP

The first start-up requires the configuration of the system and can only be carried out by a Robur TAC.

The installer is obliged to carry out preliminary checks described in Paragraph 3.1 *p. 9*.

3.1 PRELIMINARY CHECKS

Paragraph dedicated to the installer.

Upon completing installation, before contacting the TAC the installer must check:

- Correct installation of the e-NextPro appliance, as specified in the relevant Installation, use and maintenance manual.
- Correct installation of the PDG control panel (Paragraph 2.2 *p. 7*).
- Correct execution of electrical wiring (Paragraph 2.3 *p. 8*).

4 PGD CONTROL PANEL KEYS

Figure 4.1 *PGD control panel keys*

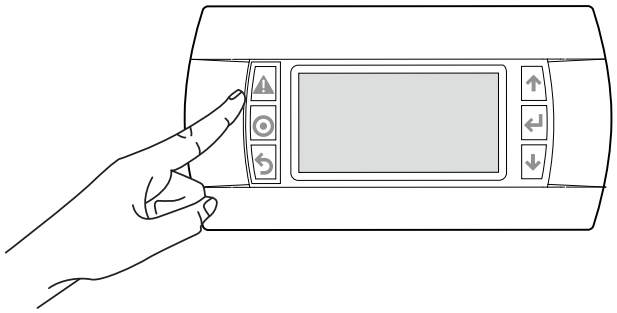


Table 4.1 *PGD control panel keys*

Key	Description
	Displays the list of active alarms.
	Allows you to enter the main menu tree.
	Returns to the previous screen.
	Scroll up a list or increase the value displayed on the display.
	Scroll down a list or decrease the value displayed on the display.
	Enter the selected submenu or confirm the set value.

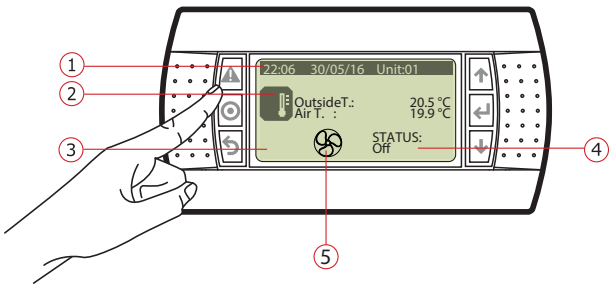
Changing a value or setting

1. Access the page that contains the value or setting you want

to change.
2. Press the ↵ key to access the current value. If pressing the key ↵ does not bring the cursor to the value to be modified, it means that the value is not editable.
3. To change the value, use the ↑ and ↓ keys.
4. Confirm the value with the ↵ key.

5 PGD CONTROL PANEL DISPLAY

Figure 5.1 *PGD control panel display*



1 Date, time and ID of the connected appliance
2 Main operating temperatures and type of active request (Table 5.1 *p. 10*)
3 Main active actuators (Table 5.2 *p. 10*)
4 e-NextPro appliance statuses (Table 5.3 *p. 10*)
5 Indicates that the indoor fan is running

5.1 ACTIVE REQUEST TYPE

Table 5.1 *Active request type*

Icon	Description
	No active request.
	Heating request.
	Cooling request.

5.2 MAIN ACTIVE ACTUATORS

Table 5.2 *Active actuators*

Icon	Description
	It is activated at the same time as the compressor is switched on.
	It is activated when a defrost is in progress, as an alternative to the compressor icon.

5.3 APPLIANCE STATUS

Table 5.3 *Appliance statuses*

Status	Description
OFF	The appliance is in standby: the antifreeze function remains active while the adjustment according to the system's request is not active.
ON	All functions are active and the appliance adjusts according to the system's request.
ENERGY S.	All functions are active and the appliance adjusts according to a reduced setpoint (settable from screen B02, Paragraph 6.2 *p. 11*). This state therefore allows energy savings.
AUTO-OFF	The appliance adjusts according to the set time slots (screen C02, Paragraph 6.3 *p. 12*) and following the nominal setpoint (settable from screen B01, Paragraph 6.2 *p. 11*). The appliance is outside the active time slot (OFF).
AUTO-ON	The appliance adjusts according to the set time slots (screen C02, Paragraph 6.3 *p. 12*) and following the nominal setpoint (settable from screen B01, Paragraph 6.2 *p. 11*). The appliance is in the active time slot (ON).
AUTO-E.S.	The appliance adjusts according to the set time slots (screen C02, Paragraph 6.3 *p. 12*) and following the energy saving setpoint (settable from screen B02, Paragraph 6.2 *p. 11*).
Din-OFF	The appliance is switched off by an input digital contact (if provided).
BMS-OFF	The appliance is switched off by a BMS supervisor (if provided).
ALARM-OFF	The appliance is in an OFF state due to an alarm.

6 PGD CONTROL PANEL MENUS

The menus and related pages refer to the FW version 15.00.018 of the heat pump electronic board.

Pressing the ↑ and ↓ keys directly from the main page you access read-only synoptic pages intended for Robur TACs.

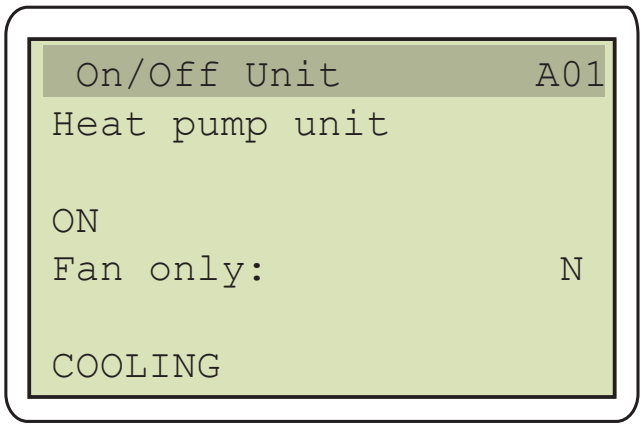
Press the ⊙ key to enter the menus.
Press the ↑ and ↓ keys to browse through the menus.
At the end of the operations, press ↩ to return to the main page.

Table 6.1 *PGD control panel menus*

Menu	Icon	Description
A		On/Off

Menu	Icon	Description
B		Setpoint
C		Clock/Scheduler
D		Inputs/Outputs
E		Alarm history
F		Board switch
G		Assistance
H		Manufacturer

6.1 ON/OFF UNIT MENU

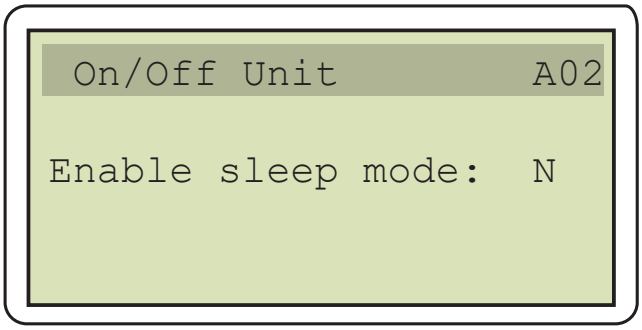


Page A01: allows you to set the status and operating mode or to activate only the fan of the indoor module. The OFF state set in this menu is always conditioned (e.g. antifreeze intervention).

► Press the ↵ key to access the value indicating the operating mode, which can take on the values:

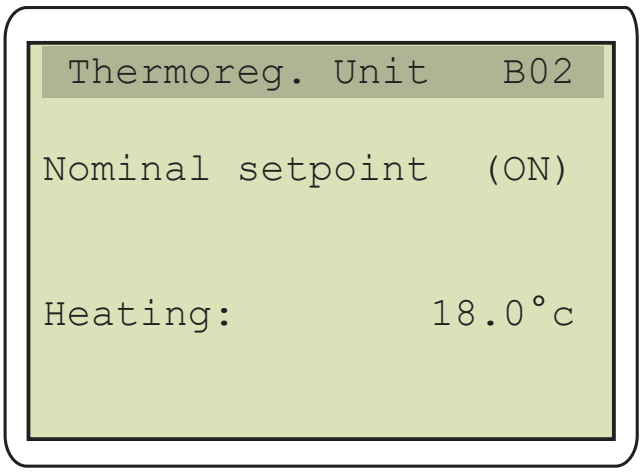
- "ON": e-NextPro system active in the selected mode ("SUMMER" for cooling, "WINTER" for heating) with the nominal setpoint set on page B02 (Paragraph 6.2 *p. 11*).
- "OFF": e-NextPro system off.
- "TIMER": e-NextPro system active in the selected mode ("SUMMER" for cooling, "WINTER" for heating) according to the time programming set in menu C "Clock/Scheduler" (Paragraph 6.3 *p. 12*).
- "ENERGY SAVE": e-NextPro system active in the selected mode ("SUMMER" for cooling, "WINTER" for heating) with the energy saving setpoint set on page B03 (Paragraph 6.2 *p. 11*).

If you want to set the operation of the indoor module fan only, set the "Fan only" field to the "Y" value and set the "Speed" field to the percentage value of the fan speed with respect to the maximum speed. To deactivate the operation of the fan only, simply set the "Fan only" field to the value "N".

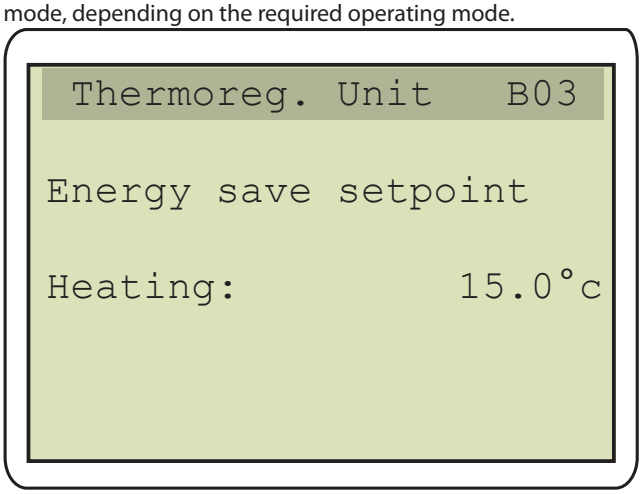


Page A02: Unconditionally turns off the heat pump for a certain period of time. Once the time has expired, the A01 function is restored.
To activate the function, set the field "Enable sleep mode" to the value "Y". At this point it is necessary to enter the date and time corresponding to the reactivation of the system (which will follow the operating mode set in page A01) and finally start the function by setting the field "Start the function" to the value "Yes".

6.2 SETPOINT MENU

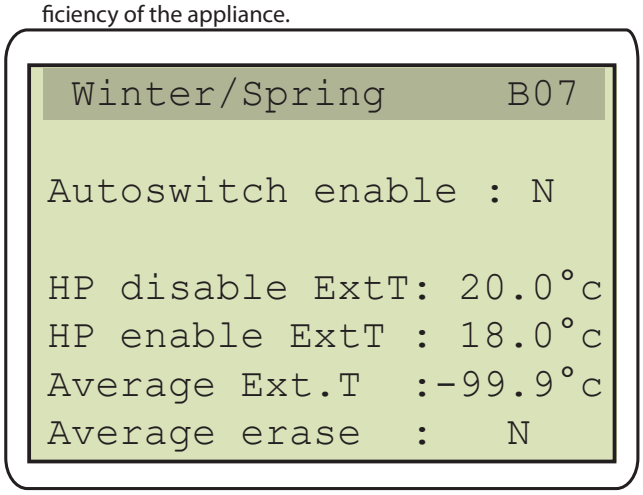


Page B02: Change the nominal setpoint, in heating or cooling mode, depending on the required operating mode.

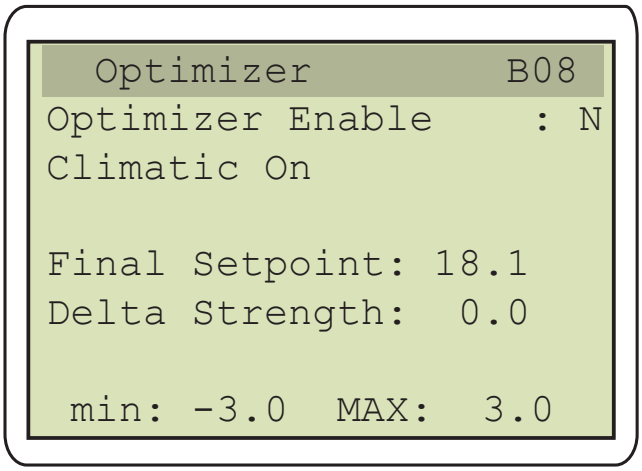


Page B03: Change the ENERGY SAVE setpoint. We recommend using the ENERGY SAVE setpoint at night or during prolonged absences from the air-conditioned room.

Page B05: allows the choice of the fan operating mode, which can be different between daytime and nighttime operation, and can also set the time slots to be considered as nighttime operation.
You can choose from the following statuses:
- POWERFUL: it is the most efficient condition, which however also leads to a greater sound emission from the fan.
- NORMAL: it is the operating condition set by the manufacturer, it allows an excellent compromise between efficiency and sound emission.
- QUIET - SILENT: in these operating conditions the fan is slowed down by 10 and 20 percentage points respectively, allowing the sound emission to be reduced. It is important to remember that setting a lower speed also reduces the efficiency of the appliance.

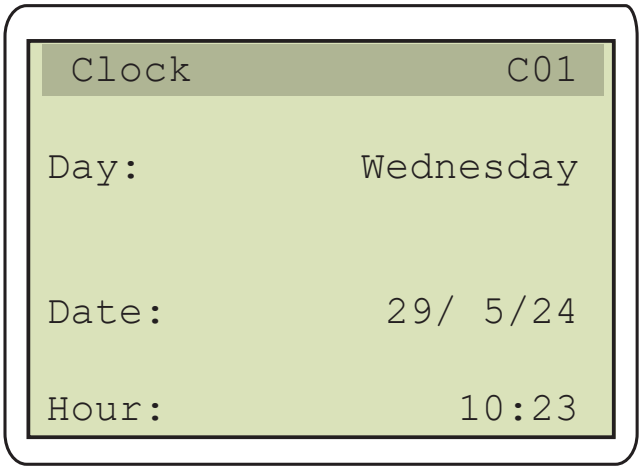


Page B07: manages the automatic end of season. If you want to activate the function, you must set the average daily outdoor temperature above which you want the heating function to turn off and below which it must turn on again. On the same page it is also possible to delete the stored daily average outdoor temperature (the value of which is displayed).

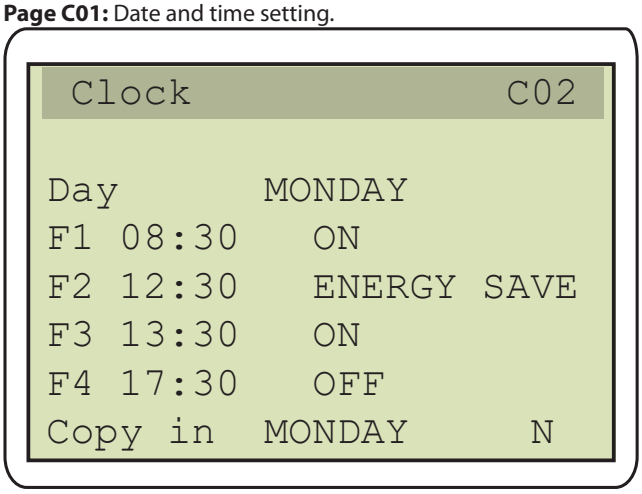


Page B08: optimiser management. The optimiser is an algorithm that allows energy to be stored by exploiting the thermal inertia of the building when conditions are more favourable.
- **Optimiser:** activates or deactivates the function.
- **Final Setpoint:** displays the setpoint value that the heat pump actually uses, including the optimiser effect.
- **Delta strength:** value cannot be changed.
- **min:** sets the maximum value that the optimiser can subtract from the required setpoint.
- **MAX:** sets the maximum value that the optimiser can add with respect to the required setpoint.

6.3 CLOCK/SCHEDULER MENU



Page C01: Date and time setting.



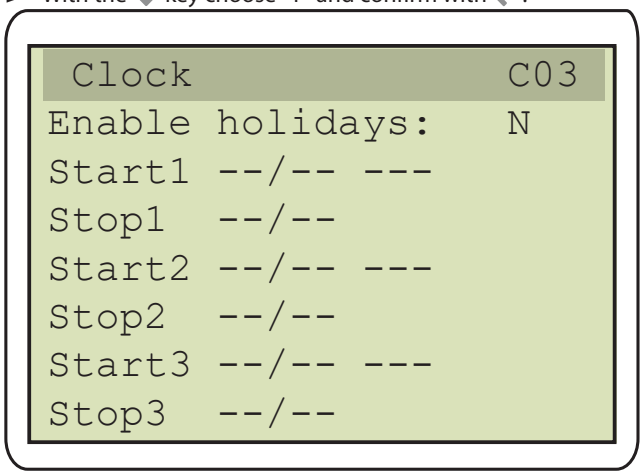
Page C02: Allows you to set time slots.
To be able to access the change of time slots, set the "OFF" or "TIMER" statuses from the A01 menu (Paragraph 6.1 *p. 11*).

Press the ↵ key to choose the day for which you want to set the time slots.
Press the ↑ and ↓ keys to change the displayed value.
Confirm with the ↵ key.
Press the ↵ key twice to switch to the time setting:

- F1: means the time slot ranging from the time set in F1 to the time set in F2.
- F2: means the time slot ranging from the time set in F2 to the time set in F3.
- F3: means the time slot ranging from the time set in F3 to the time set in F4.
- F4: means the time slot ranging from the time set in F4 to midnight of the day.

After entering the time in the first slot, confirm with ↵ to set the desired operating mode in the slot in question (choose between "ON" - "OFF" - "FAN ONLY" - "ENERGY SAVE").
Confirm the choice with ↵ and proceed with the setting of the other slots.
To set the time slots on the other days, press the ↵ key, set a different day and proceed as explained above.
Otherwise, also on page C02, you can copy the current day setting to another day:

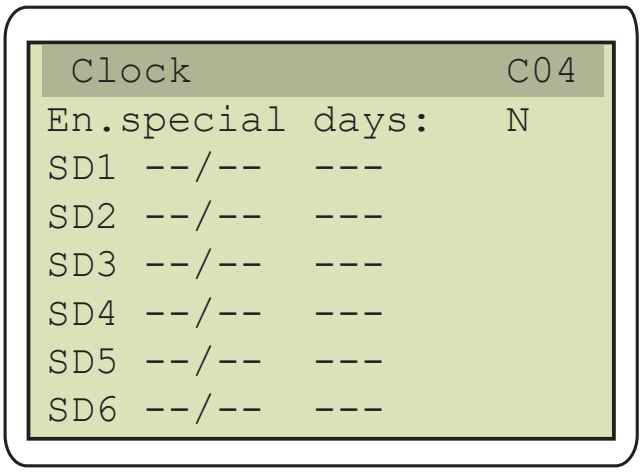
- Press the ↵ key to access the choice of the day you want to copy.
- Then use the ↑ and ↓ keys to choose the day.
- Confirm with the ↵ key.
- Press the ↵ key repeatedly, until it reaches the last field of the "Copy to" page.
- With the ↑ and ↓ keys, choose the day on which you want to copy the time slots.
- Confirm with ↵.
- With the ↓ key choose "Y" and confirm with ↵.



Page C03: Allows you to enable up to three holidays with preset operation.

- Press ↵ and ↓ to enable/disable the hoilday function.
- Confirm with ↵ to access the choice of the starting day of the holiday.
- Use the ↑ and ↓ keys to choose the starting day.
- Confirm the choice with ↵.
- Choose the operating mode with the ↑ and ↓ keys.
- Confirm with the ↵ key.
- Use the ↑ and ↓ keys to choose the final day.
- Confirm the choice with ↵.
- Repeat the same actions to set the remaining time slots if necessary.

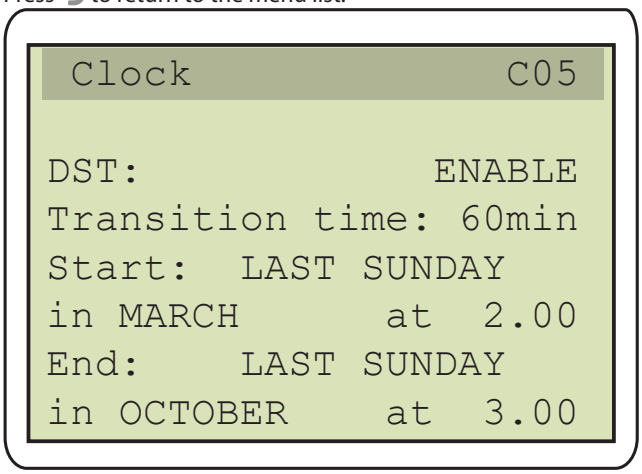
Press ↩ to return to the menu list.



Page C04: Allows you to enable a preset operation for a maximum of 6 special days.

- Press ↵ and ↓ to enable/disable the special day(s).
- Confirm with ↵ to access the choice of the starting day.
- Use the ↑ and ↓ keys to choose the starting day.
- Confirm the choice with ↵.
- Choose the operating mode with the ↑ and ↓ keys.
- Confirm with the ↵ key.
- Repeat the same actions to set the remaining special days if necessary.

Press ↩ to return to the menu list.

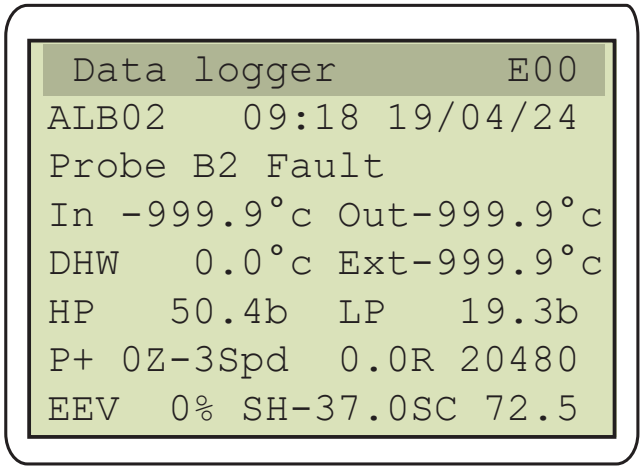


Page C05: Enables automatic transition from standard time to daylight saving time. The parameters are initially set by the manufacturer.

6.4 INPUT/OUTPUT MENU

Access to this menu is reserved for Robur TACs.

6.5 DATA LOGGER MENU



In this menu you can view the alarms related to the e-NextPro appliance.

For a description of the alarms, refer to the Installation, use and maintenance manual of the e-NextPro appliance.

6.6 BOARD SWITCH MENU

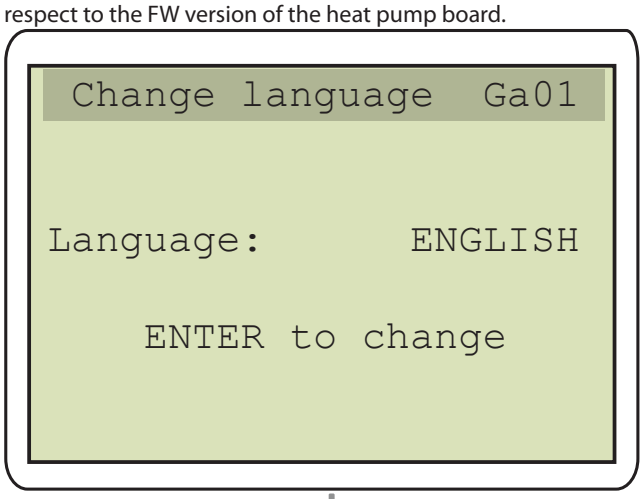
Access to this menu is reserved for Robur TACs.

6.7 SERVICE MENU

The Service menu has the following submenus:
- Change language (6.7.1 *p. 14*).
- Information (reserved for Robur TACs).
- Input/Output (reserved for Robur TACs).
- Working hours (6.7.2 *p. 14*).
- BMS configuration (reserved for Robur TACs).
- Service settings (reserved for Robur TACs).
- Manual management (reserved for Robur TACs).

6.7.1 Change language

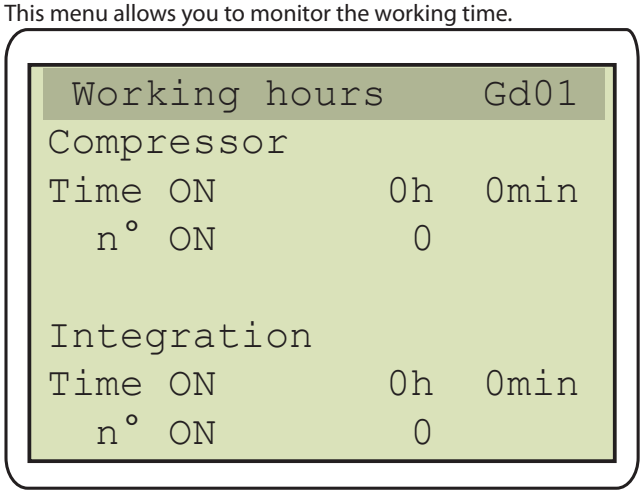
This menu allows the change of language, where possible with respect to the FW version of the heat pump board.



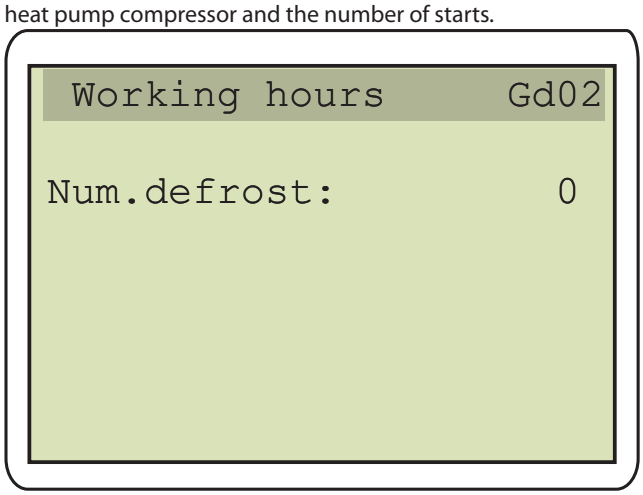
Page Ga01: by pressing the ↵ key you can change the language of the PDG control panel interface. The possible languages are: Italian, English, German and French.
Page Ga02: not to be modified.

6.7.2 Working hours

This menu allows you to monitor the working time.



Page Gd01: This page displays the total operating hours of the heat pump compressor and the number of starts.



Page Gd02: This page shows the number of defrosts carried out by the heat pump during heating operation.

6.8 MANUFACTURER MENU

Access to this menu is reserved to Robur technical service.

6.9 MENU TREE OVERVIEW

Figure 6.1 *PGD control panel menu overview*

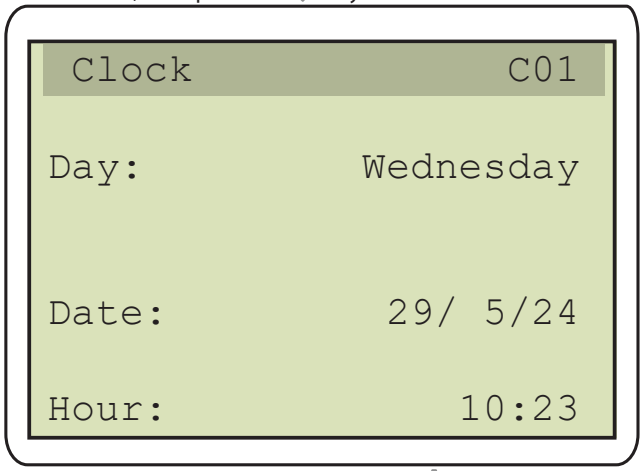
7 NORMAL OPERATION

The most frequent operations for the end user are summarised below.

7.1 CHANGING THE TIME

To change the time it is necessary to access page C01 as follows:

► Press the ⊙ key.
► Press the ↑ and ↓ keys to highlight the C "Clock/Scheduler" menu, then press the ↵ key to enter the menu.

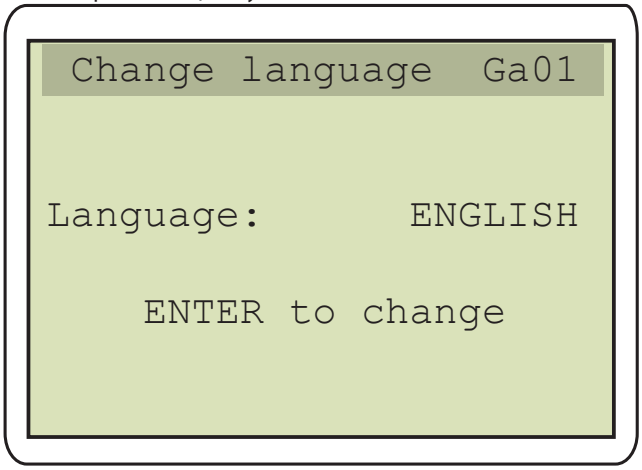


► On page C01 that appears, press the ↵ key repeatedly until you get to the "Hour" field.
► Change the hours value if desired with the ↑ and ↓ keys. Confirm the value with the ↵ key to go to the minutes setting.
► If desired, change the value of the minutes with the ↑ and ↓ keys. Confirm the value with the ↵ key.
► Press the ↩ key twice to return to the main menu.

7.2 LANGUAGE SETTING

To set the language you need to access page Ga01 as follows:

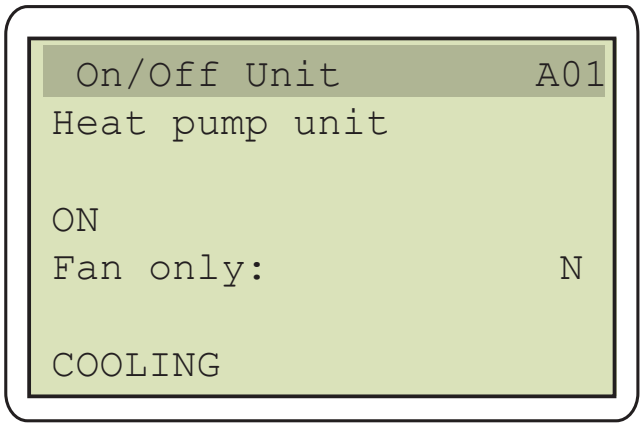
► Press the ⊙ key.
► Press the ↑ and ↓ keys to highlight the G "Service" menu, then press the ↵ key to enter the menu.



► On the Ga01 page that appears, press the ↵ key to change the language and wait a few seconds for the interface language to update (the sequence is English-Italian-French-German).
► Once the desired language is set, press the ↩ key three times to return to the main menu.

7.3 START E-NEXTPRO SYSTEM

To manually start the e-NextPro system with the nominal setpoint you need to access page A01 as follows:
► Press the ⊙ key.
► Press the ↑ and ↓ keys to highlight the A "On/Off Unit" menu, then press the ↵ key to enter the menu.



► On the A01 page that appears, press the ↵ key to access the "OFF" value.
► With the ↑ and ↓ keys, change the value to "ON" and confirm the value with the ↵ key.
► Press the ↩ key twice to return to the main menu.

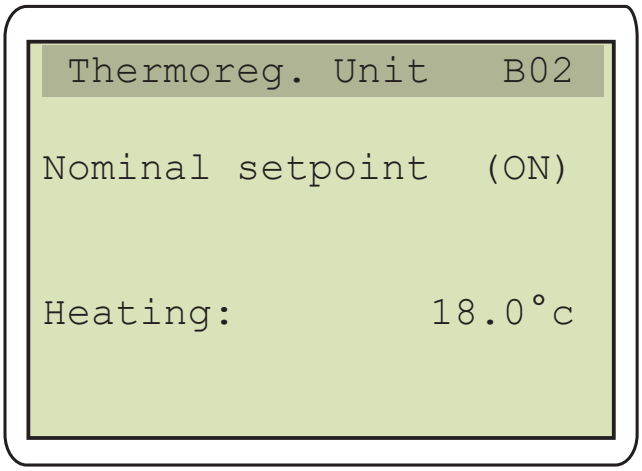
To manually start the e-NextPro system with the ENERGY SAVE setpoint, you must access page A01 as described above and set the value to "ENERGY SAVE", then confirm the value with the ↵ key.

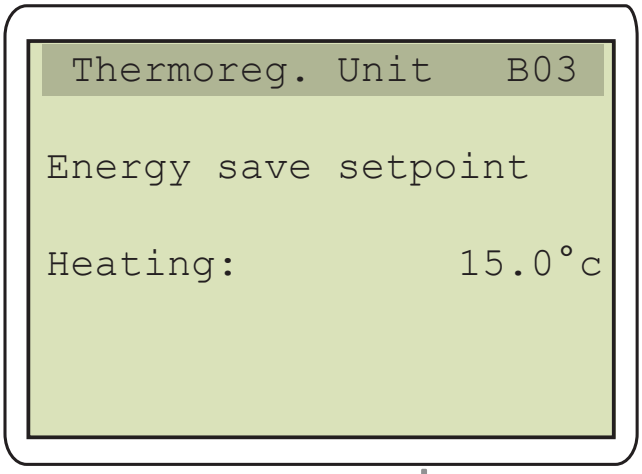
To start the e-NextPro system so that it follows the time programming set in menu C "Clock/Scheduler" (Paragraph 6.3 *p. 12*) it is necessary to access page A01 as described above and set the value to "TIMER", then confirming the value with the ↵ key.

In the presence of an external request, refer to Paragraph 7.7 *p. 17*.

7.4 CHANGE THE SETPOINT

To change the setpoint (heating or cooling, depending on the operating mode set, Paragraph 7.6 *p. 17*), it is necessary to access page B02 (for the nominal setpoint) or B03 (for the ENERGY SAVE setpoint) as follows:
► Press the ⊙ key.
► Press the ↑ and ↓ keys to highlight the B "Setpoint" menu, then press the ↵ key to enter the menu.
► Press the ↓ key to go to page B02 (if you want to change the nominal setpoint) or B03 (if you want to change the ENERGY SAVE setpoint).

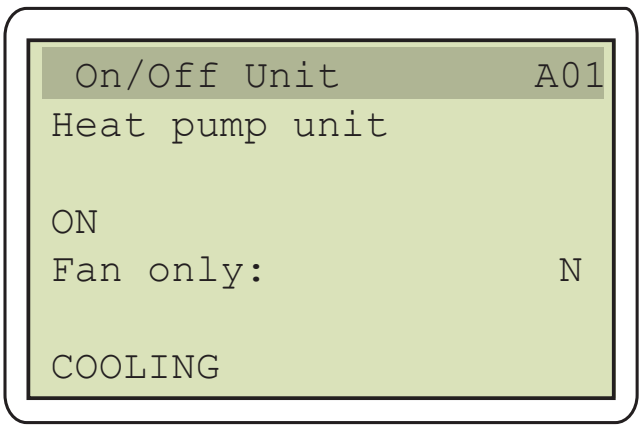




► On the page that appears, press the ↵ key to access the setpoint value.
► With the ↑ and ↓ keys, change the value and confirm the set value with the ↵ key.
► Press the ↩ key twice to return to the main menu.

7.5 TURN OFF THE E-NEXTPRO SYSTEM

To manually shut down the e-NextPro system you need to access page A01 as follows:
► Press the ⊙ key.
► Press the ↑ and ↓ keys to highlight the A "On/Off Unit" menu, then press the ↵ key to enter the menu.



► On the A01 page that appears, press the ↵ key to access the first field (which will have the values "ON" or "TIMER" or "ENERGY SAVE").
► With the ↑ and ↓ keys, change the value to "OFF" and confirm the value with the ↵ key.

► Press the key twice to return to the main menu.

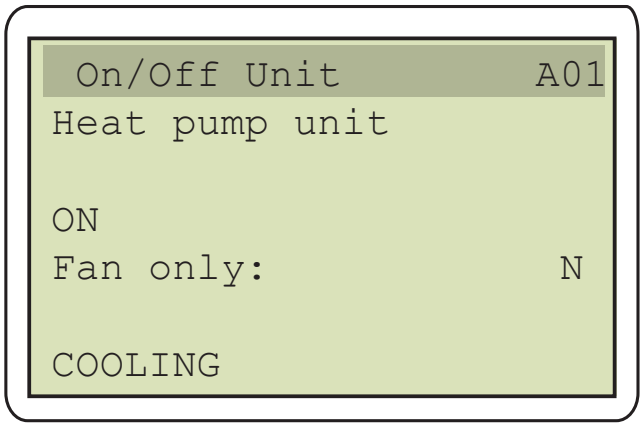
In the presence of an external request, refer to Paragraph 7.7 *p. 17*.

7.6 CHANGE THE OPERATING MODE (HEATING/COOLING)

To change the operating mode of the e-NextPro system it is necessary to access page A01 as follows:

► Press the key.

► Press the and keys to highlight the A "On/Off Unit" menu, then press the key to enter the menu.



► On the A01 page that appears, press the key to enter the value "WINTER" (if the appliance is in heating mode) or "SUMMER" (if the appliance is in cooling mode).

► With the and keys, change the value to the desired mode ("WINTER" for heating and "SUMMER" for cooling) and confirm the value with the key.

► Press the key twice to return to the main menu.

7.7 OPERATION VIA CENTRALISED EXTERNAL REQUEST

If the e-NextPro appliance is operated via an external request, suitably connected to the DI8 input of the outdoor module electronic board, operation is enabled or disabled depending on the status of the external request.

The e-NextPro appliance is factory supplied with the DI8 contact closed by an electrical bridge and is therefore enabled for operation.

► If the external request is disabled (DI8 input open), the main page shows as appliance status "Din-OFF", indicating that activation is inhibited by the external request. In this case it is not possible to activate the appliance until the external request is activated.

► If the external request is activated (DI8 input closed) or there is no external request (DI8 contact closed at the factory by an electrical bridge), the operation is enabled and it is possible to activate the appliance with the control panel.

The e-NextPro appliance, if enabled for operation, is activated only in the presence of a service request from the connected control panel.

8 DIAGNOSTICS

In the event of a fault or an error of the e-NextPro appliance, the flashing key is turned on.

Tapping the key displays the list of alarms currently active on the appliance.

By keeping the key pressed for a few seconds, the alarms present are reset, if reset is allowed by the e-NextPro appliance.

Pay attention to the fact that if after resetting an alarm, it quickly reappears or it is not possible to perform the reset, this indicates a malfunctioning condition of the e-NextPro appliance for which an intervention by the Robur TAC is appropriate.

Refer to the Installation, use and maintenance manual of the e-NextPro appliance for a detailed list of faults relating to the appliance.

If the PGD control panel detects that the electronic board of the e-NextPro appliance is offline, the message "I/O Board xx fault" appears on the control panel display.

If the PGD control panel does not receive any network signal from the e-NextPro appliance, the "NO LINK" message is displayed on the display of the control panel, which is also displayed in the first minute of powering the e-NextPro appliance when the system is loading the appliance firmware.

9 ERP CLASS OF THE DEVICE

Table 9.1 *Commission delegated regulation (EU) n. 811/2013 - Temperature controls*

Supplier	Model	Class of the temperature control	Contribution of the temperature control to seasonal space heating energy efficiency in %, rounded to one decimal place
Robur	ODSP055 ODSP056 ODSP057	VI	4

EU DECLARATION OF CONFORMITY (DOC)

We

Company name	**Robur S.p.A.**
Address	via Parigi 4/6
Postcode and City	24040 Verdellino/Zingonia (BG) Italy
Telephone number and fax	+39 035 888111 - F +39 035 884165
E-Mail	export@robur.it

declare that the DoC is issued under our sole responsibility and belongs to the following product:

Appliance / Product	Control panel
Trade Mark / Commercial Brand	Robur
Type	**PGD**
Models	pGDNE

The object of the declaration described above is in conformity with the relevant Union harmonization legislation:

Electromagnetic Compatibility Directive (EMC)	**2014/30/EU**
Others applicable Union legislation:	
Low Voltage Directive (LVD)	2014/35/EU
RoHS Directive	2011/65/EU
The following harmonized standards and technical specifications have been applied:	
Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission	EN 55014-1
Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard	EN 55014-2
Immunity for residential, commercial and light-industrial environments	EN 61000-6-1+A1/AC
Automatic electrical controls for household and similar use - Part 1: General requirements	EN 60730-1
Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances	EN 50581

Signed for and on behalf of:

Robur S.p.A. via Parigi 4/6 - Verdellino/Zingonia (BG)	19/03/2025	Jvan Benzoni - R&D Director
place of issue	date of issue	name, function, signature

Robur mission

Robur is dedicated to dynamic progression
in research, development and promotion
of safe, environmentally-friendly, energy-efficiency products,
through the commitment and caring
of its employees and partners.

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afaq QSE Quality Health and Safety Environment AFNOR CERTIFICATION