

Installation guide

DRIVER

Pilot wire programmer

DRIVER 610 - 1 projecting zone
 DRIVER 620 - 2 projecting zones



Warning

- Carefully read these instructions prior to installation.
- The unit must be installed in compliance with current standards.
- Always switch off the mains before installing or servicing the unit.
- Do not attempt to repair the unit yourself; an after-sales service is available.
- Check that the fastenings are suited to the surface to which the unit will be attached (plasterboard, brick, etc.).
- The diagrams provided are simplified for greater clarity. Protections and other accessories required by standards are not illustrated. Standard UTE NF C15-100 and good practice must be complied with. Connected or nearby units must not generate excessive interference (directive 2004/108/EC).

Room unit mounting.

The room unit must be installed at a height of approximately 1.5 m, so that it is within arm's reach for ease of use.

To attach the unit to the wall, you must separate it from its base. To do so, unlock the casing.

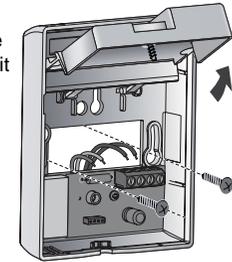


Unscrew the terminal box cover and lift it up as high as it will go to block it, then position the base on the wall running the wires out through the hole in the cover.

Secure the base using suitable screws and screw anchors or fit onto a flush-mounted box (distance between centres 60 mm).

Connect the control wires.

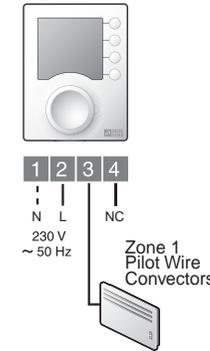
Close the box and tighten the terminal box cover screw.



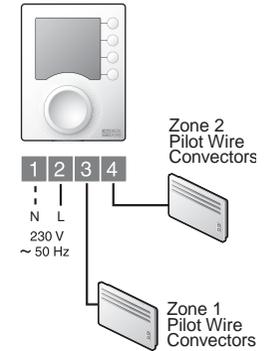
Connection

	DRIVER 610	DRIVER 620
terminal 3	Convectors zone 1	Convectors zone 1
terminal 4	NC	Convectors zone 2

DRIVER 610



DRIVER 620



informations

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Unit compliant with the requirements of directives:
 2004/108/EC (Electromagnetic Compatibility)
 and 2006/95/EC (Low-Voltage Safety)

Because of changes in standards and equipment, the characteristics given in the text and the illustrations in this document are not binding unless confirmed by our services.

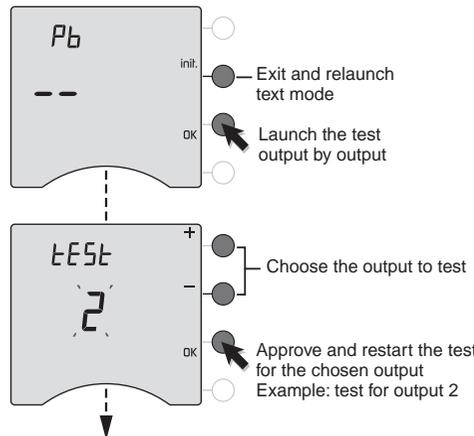
Checking the pilot wire connections

Put all of the installation's convectors on Comfort (with the set-point on its maximum setting).

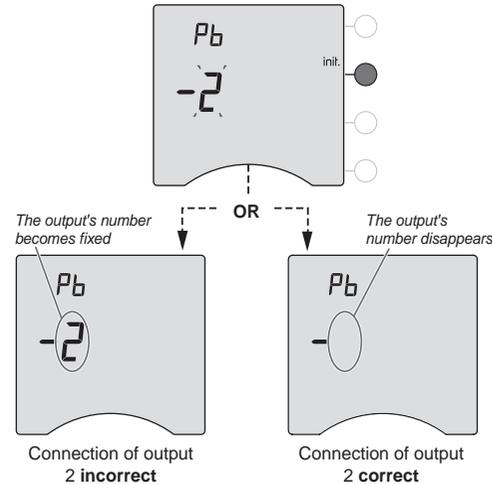
When the unit is switched on, a test lasting about 1 minute 30 seconds checks that the outputs are correctly connected.

If the display remains "normal", this means there are no problems.

If a problem exists, the DRIVER displays **Pb - -**.



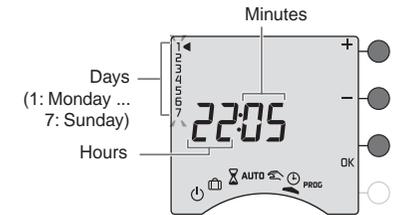
Output 2 test underway.



Repeat the operations for zone 1.
 Check the incorrect connections.
 To exit test mode, press the **init** button.

Activation

The first time you activate the unit, you must set the clock.



Turn the knob to .
 The days flash.

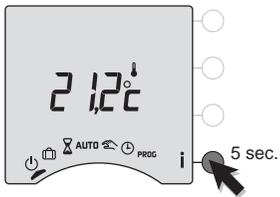
Press + or - to set the day, then OK to confirm and go to the next setting.
 Repeat these steps for the other menus.

To exit the "time setting" mode, turn the selector knob.

Configuration

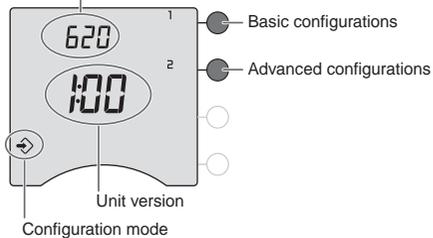
To enter the configuration menus:

- Turn the knob to ,
- then press and hold the  button for 5 seconds.



The unit will propose 2 configurations to choose from:

Unit reference number (for example, DRIVER 620)



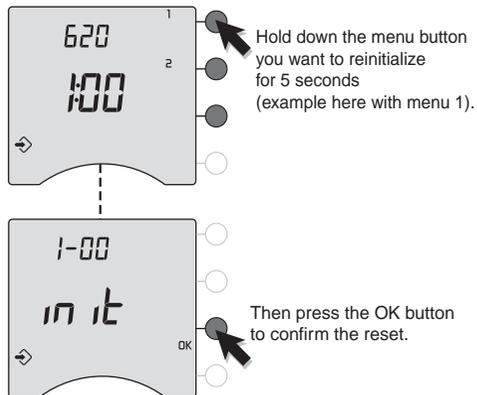
After each menu has been configured, the unit returns to the choice of menus.

If you want to exit configuration, turn the selector knob to the right.

Return to the factory configuration

The factory settings may be restored for each of the menus.

Turn the knob to , then press and hold the  button for 5 seconds.

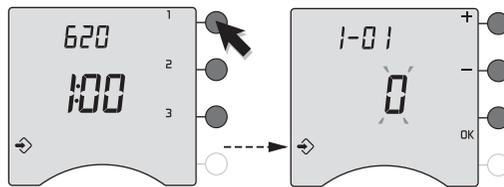


Repeat these steps for the other menus.

To exit the mode, turn the knob to another mode.

Basic configurations (menu 1)

Press button 1.



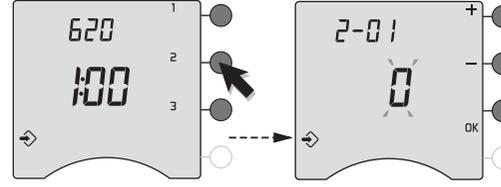
To modify the various settings, press the + or - buttons, then press the OK button to validate and go to the next setting.

1-01	0 Weekly (by default)
Programming type selection	1 Daily

1-02	0 pas d'1 heure (par défaut)
Choix du pas de programmation	1 pas de 30 minutes
	2 pas de 15 minutes

Advanced configurations (menu 2)

Press button 2.



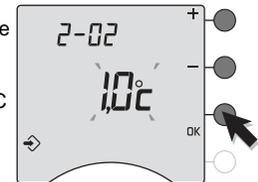
To modify the various settings, press the + or - buttons, then press the OK button to validate and go to the next setting.

2-01	0 Program modification authorized
Modification authorization for the user	1 Program modification unauthorized

2-02	Correction possible from -5°C to +5°C in increments of 0.1°C. Press the + or - buttons to modify, and press the OK button to confirm.
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If there is a difference between the actual temperature (taken with a thermometer) and the temperature measured and displayed by the unit, function 2-02 can be used to compensate for the difference by changing the way the sensor takes measurements.

Example: If the temperature displayed by the unit is 19°C and the temperature measured is 20°C, add 1°C to the display and confirm by pressing OK.



Technical characteristics

- 230 V, 50 Hz power supply, $\pm 10\%$
- Consumption: 2 VA
- Class II insulation
- 1 or 2 pilot wires output 0.1A / 230V
- Clock backup in the event of a blackout: 2 hours (per capacitor)
- Dimensions: WxHxD = 80 x 103 x 16 mm
- Protection index: IP 30
- Installation in an environment with normal pollution levels
- Storage temperature: -10°C to +70°C
- Operating temperature: 0°C to +40°C

Summary table of configurations

1-01	Type of program 0 = weekly 1 = daily
1-02	No program 0 = 1 hour 1 = 30 minutes 2 = 15 minutes
2-01	Modification authorization 0 = Program modifiable 1 = Non modifiable program
2-02	Correction of the temperature measured by -5°C to +5°C in increments of 0.1°C.

Help

Nothing is displayed on the room unit screen.
There is no power supply.
Check the circuit breaker.

Pb — is displayed on the screen.
Problem with the connection on a Pilot Wire output.
Contact our technical department.

the  symbol flashes.

A fault is detected on the installation.
Press the button to view the fault(s).

The device displays: dEF and a number
There is a fault with the unit which requires a return to our after-sales service.
Contact our technical department.

DRIVER

Pilot wire programmer

DRIVER 610 or 620 - 1 or 2 zones, projecting
 DRIVER 611 or 621 - 1 or 2 zones, with modular unit



informations
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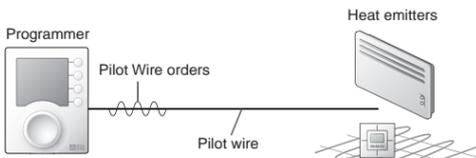
Device complying with the requirements of the directives:
 CEE 2004/108 (Electromagnetic compatibility)
 and CEE 2006/95 (Low voltage safety)

Because of changes in standards and equipment, the characteristics given in the text and the illustrations of this document are not binding unless confirmed by our services.

Presentation

This unit is used to program the Comfort or Economy mode of the heating for 1 zone (DRIVER 610 or 611) or 2 zones (DRIVER 620 or 621),

To control the heat emitters, the programmer uses the Pilot Wire.



Independent from the power supply of the heat emitter, the Pilot Wire is used to send the Comfort ☀, Economy 🌙, Frost Protection ❄ or Shutdown ⏻ orders requested by the programmer.

The required temperature is set on the thermostat of each heat emitter (convectors, panel heaters, under-floor heating or radiant ceiling heating, towel warmer radiators, storage heaters, etc.).

IMPORTANT: The heat emitter must be in automatic mode (PROG, AUTO, ⏻, etc. depending on model) to receive orders from the programmer..

Pilot Wire order (mode)	Setting on the heat emitter	Room temperature
Comfort ☀	Comfort setting (thermostat knob) example : 19°C	19°C
Economy 🌙	Economy setting (thermostat knob) example : 16°C or Comfort -X°C (depending on heat emitter model)	16°C
Absence ❄	Frost protection set to 7°C or 8°C (depending on model)	7°C or 8°C
Shutdown ⏻	Heating shutdown	No heating

Options

The following options are only available on the DRIVER 611 or 621.

TYPHONE 500
 When associated with the DRIVER 611 or 621, the TYPHONE 500 allows you to control your heating remotely by telephone.

MINOR 500
 Regulates an underfloor heating or radiant ceiling heating system. In combination with the DRIVER 611 or 621, this unit is used to control the set points and determine the room temperature measured by each probe.

Warnings

- Carefully read these instructions prior to use.
- Do not attempt to repair the unit yourself; after-sales service is available.

Description

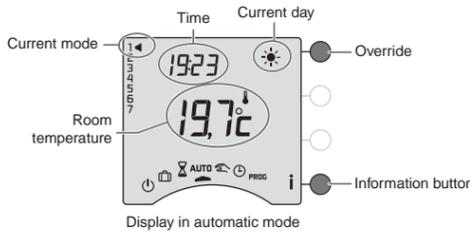
This guide is common to the DRIVER 610, 611, 620 or 621.



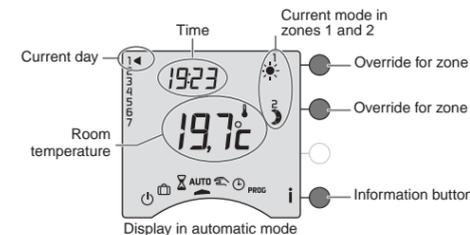
- ⏻ Shutdown mode
- ❄ Absence mode
- ⌚ Timer mode
- AUTO Automatic mode
- ☀ Continuous mode
- ⌚ Time setting
- PROG Programming

Automatic mode

Turn the knob to AUTO.
DRIVER 610 or 611 follows the programming.



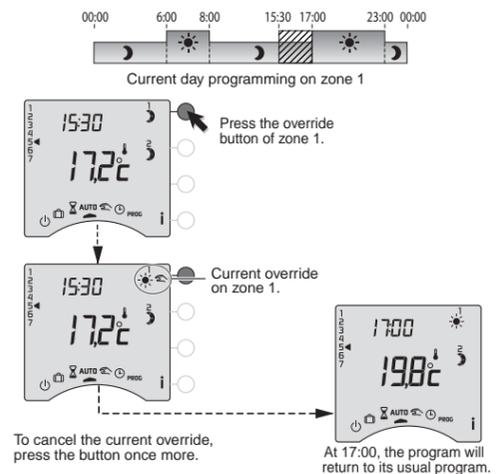
DRIVER 620 or 621 follows the programming in both zones.



Override

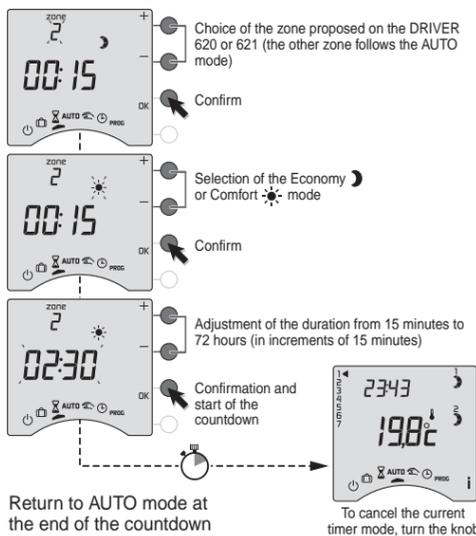
In automatic mode, override is used to go from Comfort to Economy mode (or conversely) until the next program change.

Example: it is 15:30 and you would like to switch to Comfort mode before the set time (17:00).



Timer mode

This mode is used to select a mode for a given time and for one zone only.
 Turn the knob to ⌚

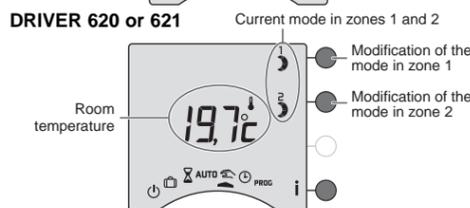
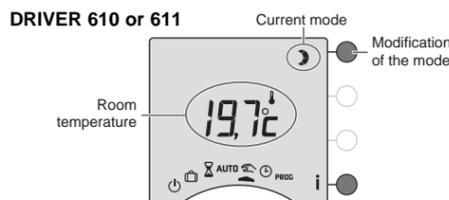


Return to AUTO mode at the end of the countdown
 To cancel the current timer mode, turn the knob.

Continuous mode

This mode allows you to choose a continuous mode for each of the zone.

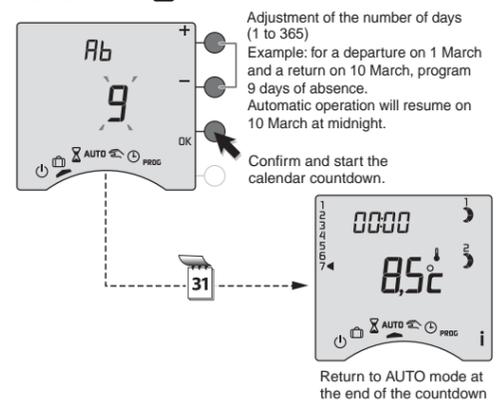
Turn the knob to ☀, then press the modification button of the relevant zone to select the Comfort ☀ or Economy 🌙 mode.



To exit this mode, turn the knob.

Absence mode

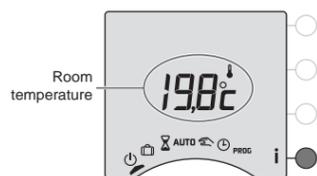
This mode lets you place your home under Frost Protection if you need to leave for several days.
 Turn the knob to ❄.



To cancel the current absence mode, turn the knob.

Shutdown mode

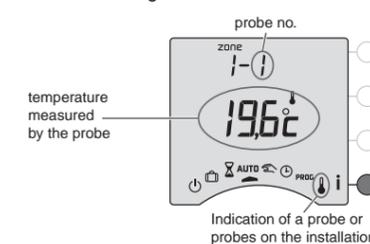
This mode shuts down your heating system.
 Turn the knob to ⏻.



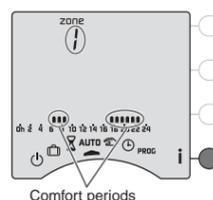
Information button

During the AUTO, ☀ or ⏻ modes, press the i button repeatedly to find out:

- if you have the MINOR 500 option, the temperature measured by each of the probes declared during the installation.



- the program of the current day per zone,

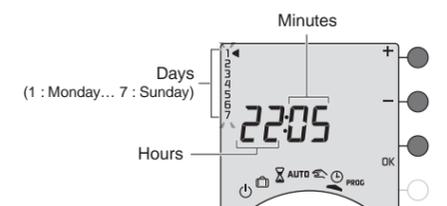


Time setting

Turn the knob to ⌚.

The days flash.

Press + or - to change the day, then press OK to confirm and continue on to the next setting.



Repeat the operations to set the hours and minutes.

To leave the "setting the time" mode, turn the knob.

NOTE : If the unit is configured for a daily program, the days setting is not offered.

Programming

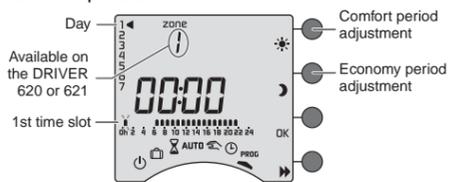
Turn the knob to **PROG.**

The default program is a Comfort period from 6:00 to 23:00.

1. Create your program

Programming starts on day 1 at midnight.

Press the or buttons to create different Economy or Comfort periods.



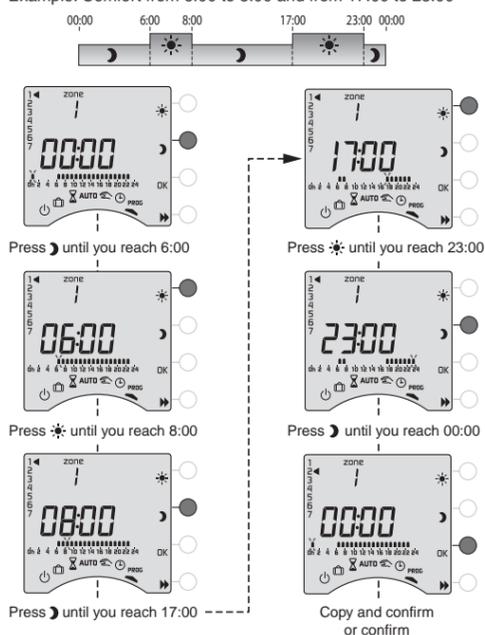
2. Confirm and copy the program

Press and hold the **OK** button for 3 seconds to confirm the program you created and copy it to the next day.

3. Confirm the program

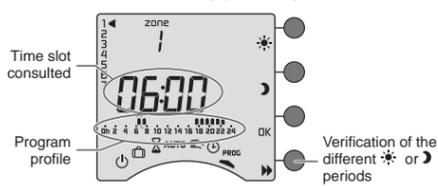
Press the **OK** button to confirm and continue on to the next day to program it separately.

Example: Comfort from 6:00 to 8:00 and from 17:00 to 23:00



Check your program

Press the button repeatedly to check the accuracy of the Comfort and Economy periods you created.



Programming zone 2 (on the DRIVER 620 or 621)
The programming for zone 2 is available after pressing (**OK**) of the day 7 of the zone 1.

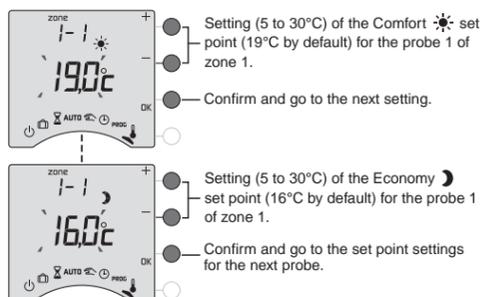
Exiting the programming mode

Turn the knob to another mode.

COMMENTS : Depending on the configuration made during installation, programming can be weekly or daily. Likewise, this programming may be done in increments of one hour, 30 minutes, or 15 minutes. To change these settings, refer to the "installation guide", or contact our customer service department or your installer.

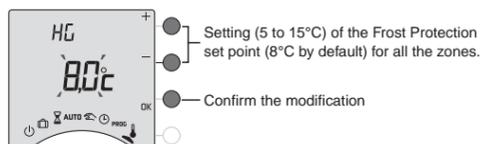
MINOR 500 option: set point settings

This mode is used to modify the Comfort and Economy set points of each probe. Turn the knob to .



Repeat the operations for each probe.

When the last probe is set, you can set the Frost Protection set point for all the zones.



To exit the mode, turn the knob to another mode.

Troubleshooting

The purpose of this section is to help you quickly solve the most common problems that you may encounter with your product during use.

If you're unsure, or if the problem persists or isn't in this list, contact our customer service department.

Nothing is displayed on the room unit screen.

There is no power supply.
Check your circuit breaker.

The symbol flashes.

A fault has been detected in the system.
Press the button to consult the fault or faults.

The unit displays: dEF and a number.

There is a fault on the unit or the installation.
Contact your installer or our customer service department.

The unit displays ---- instead of the temperature measured by each MINOR 500 probe.

There is a problem on at least one of the probes.
Contact your installer or our customer service department.

The unit is in time setting mode.

There was a mains disruption that lasted more than 2 hours.
Set the time. All other settings have remained unchanged.

When setting the time, there is no option to set the day.

You are in daily programming.
To switch to weekly programming, refer to the installation guide or contact your installer or our customer service department.

The temperature displayed does not match the temperature measured in the room (thermometer).

Refer to the installation guide or contact your installer or our customer service department.

The unit displays HEAT

Your underfloor heating or radiant ceiling heating system is in "gradual heating" mode.

If you want to know the number of days remaining, press the button.

The heating elements are in Frost Protection mode

You are in programming mode, the absence mode or time setting mode.

Turn the knob to select another mode.

Pb ---- is displayed on the screen.

Problem with the connection of a heating element.
Contact your installer or our customer service department.