









FUNCTION MODES DESCRIPTION

Use the joystick  to change the mode   **Auto**   **P**




TIMER Mode

Press the joystick  to enter in the TIMER mode.
Use the joystick  to make blink the duration or the temperature.

When the value is blinking use the joystick  to adjust:

- The duration with duration in hours « **Hour** » when it's less than 24 h or in days « **day** ».
- The desired temperature for this duration (adjustable between 5 and 37°C)


To valid your adjustments press the joystick .

To leave the TIMER mode before the end duration, press the  key.



COMFORT Mode

Use this function to set your installation in comfort mode.

Use the joystick  to adjust the setting temperature. (Default setting 20°C)



AUTO Mode

The thermostat follows the chosen program in accordance with the actual hour.


By using the joystick , you can adapt the temperature until the next change within the program.

The symbol  is displayed.





REDUCED Mode


Use this function to set your installation in comfort mode.


Use the joystick  to adjust the setting temperature. (Default setting 18°C)



CLOCK ADJUSTEMENT Mode

Press the joystick  => The first value which must be adjusted will be blink, djust the value with the joystick .


Validate your adjustment by pressing on the joystick .


You could choose directly the value which must be adjusted with the joystick .


When you have finished press the joystick  to validate all your adjustments.



PROGRAM Mode

Press the joystick  => The number of the current program blinks.

You can choose a program now by using the joystick .

By pressing the joystick  key, you can display the program either a built-in program (**P1** to **P5**) or you can create or modify a user's program (**U1** and **U2**). See the following section. For a built-in program (**P1** to **P5**) the program operates between the temperatures « **comfort** » and « **reduced** ».

Built-in programs descriptions.

P1: Morning, evening & weekend

P3: 7h - 19h (office)) Evening & weekend







P5: 8h - 19h, Saturday (Shop)

P2: Morning, noon, evening & weekend

P4: Week-end (Secondary House)





Keyboard lock and unlock function

In **Auto**, , ,  modes only. To lock the key board, maintains the joystick  pressed and press the  key at the same time, then the symbol «  » appears.

To unlock the key board repeat this procedure, (the symbol «  » will to disappear)

Error codes








Error on the External (Floor) sensor => **Err** and  are blinks.

Error on the internal sensor => **Err** and  blinks.

Note: By safety if there is a sensor default the regulation is replaced by a rate of 5 % functioning.


INSTALLATION MENU

Your thermostat has one advanced menu.

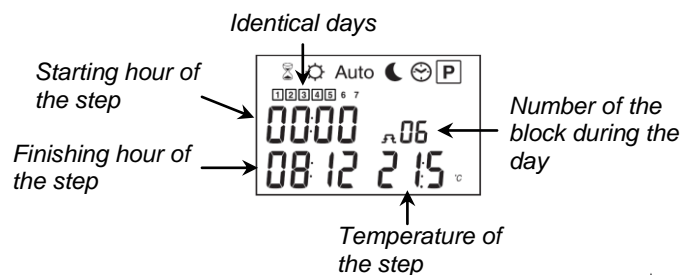
1. In order to enter in this menu, use the joystick , and select the Timer mode   **Auto** .
2. Then maintain the joystick  on the left direction during 5 seconds.
3. The first parameter must be appears "**N°01 SenS**"
4. Use the joystick to  to choose the parameter which needs to be adjusted.
5. Once the parameter chosen, press on the joystick , the value must be blink. You can now adjust the

value with the joystick . To valid your adjustment press the once again on the joystick .

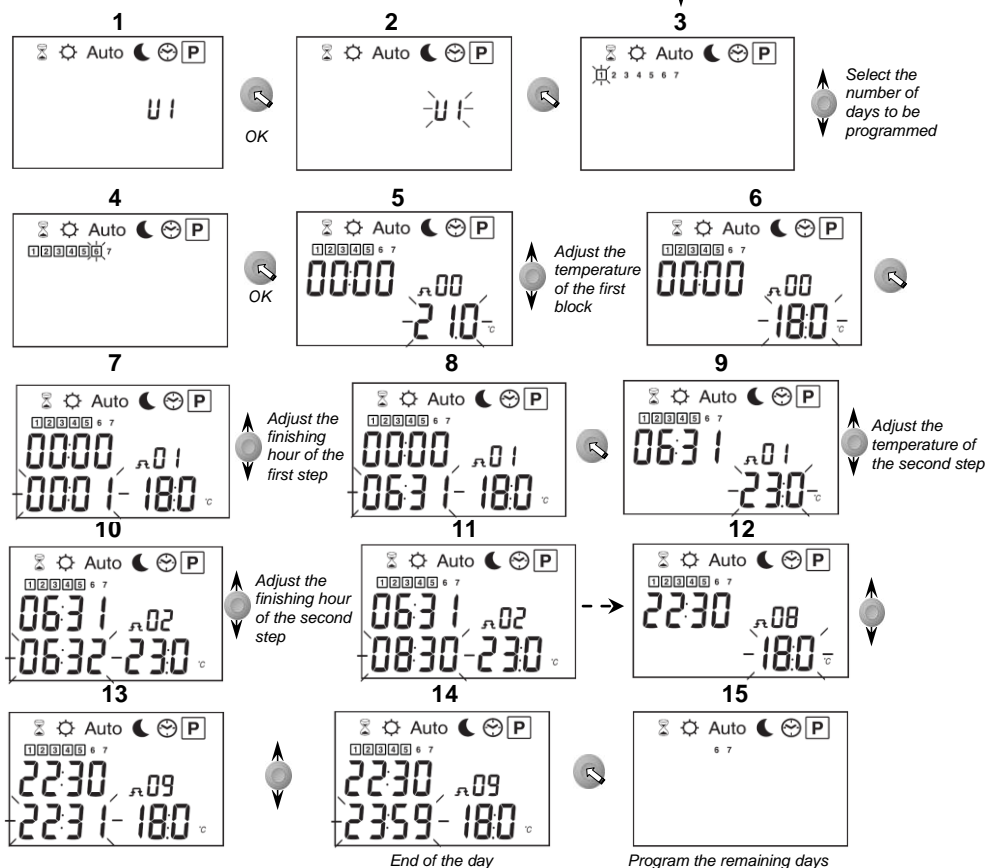
6. To exit the parameter menu, go to the parameter « **N°09 End** » and press the joystick .

number	name	Parameter description	Factory setting	Other possibilities
01	SEnS	Selection of the sensor used for the regulation.	Sens Air OnLy Internal sensor only	Sens Flor OnLy External sensor only used as Floor sensor or external ambiance sensor.
02	CAL Air	Calibration of the internal probe The calibration must be done after 1 day working with the same setting temperature in accordance with the following description: Put a thermometer in the room at 1.5M distance from the floor (like the thermostat) and check the real temperature in the room after 1 hour. When you enter on the calibration parameter "no" is displayed to indicate no calibration has made. To enter the value read on the thermometer press on the joystick, the message " _ _ _ " must be blink, now enter the real value with the joystick « up and down » and valid your adjustment by pressing the joystick. The message "Done" should be displayed, the value will be stored in the internal memory. If you need to remake the calibration, enter once again on the installation menu, and press on the joystick when the message "Done" is displayed, then the message " _ _ _ " should be blink. The old value will be erased if you valid by pressing on the joystick and the message "no" or will be replaced by the new one. * Pay attention: Only the heating element managed by the thermostat must be run during the complete step of the calibration.	no no calibration has made	done Calibration has made
03	CAL SoL	Calibration of the external probe The calibration must be done same as described above if the external sensor is connected and used like an external ambiance sensor. If the external sensor is used as floor sensor, the thermometer should be put on the floor.	no no calibration has made	done Calibration has made
04	1st Heat	Drying function (for cement, concrete floor...) This first one heat works in the following way: 2 working hours dispatched on 24 hours the 1st day and 1H00 more the following days, during 21 days. During this period the room or floor in priority (if sensor connected) temperature is limited at 20°C	no Function not activated	« 21 » Function activated * The function will be kept in case of power supply cutting.
05	LoAd	Value of the power connected on the thermostat (in Watts) Note: 1/ When the power connected on the thermostat exceeds > 2300W, you must use an external power relay (contactor). Then adjust the parameter on "0000" position. 2/ When the external sensor is used for the regulation it's not necessary to adjust this parameter.	1500	Adjustable 0 to 3500W by step of 50W Your adjustments Room : _____ Installed power : _____
09	End	To exit the installation menu The software version is displayed.	Press on the joystick to exit  E760 4.xx	

How can you create or change a user's program (U1 or U2).



Before, select one of the user's programs **U1** or **U2** by using the joystick.



To program the remaining days, repeat step « 4 » to « 14 » and this for all the days of the week.

Once you have run through the whole programming, set the thermostat in the **Auto** mode.

- To leave the program mode **P** without saving press the key.
- In program mode **P** you have the possibility to reset a user program separately (**U1** or **U2**) by pressing the key during a few seconds when you have selected the user program (**U1** or **U2** must be blinking before pressing). When the program is erased "**Clr**" is displayed.

USER GUIDE

GB

Wattstemp 760 230Vac Flush mounting digital programmable thermostat.



External sensor 10K

Descriptions

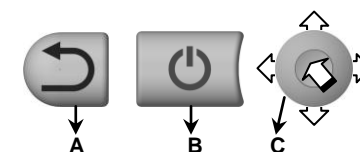
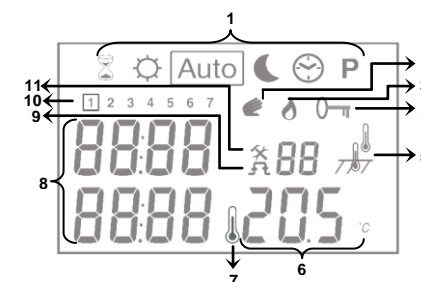
- Electronic thermostat specially designed to control the Electrical floor heating.
- Weekly programme per minute.
- 12 temperatures levels per day.
- Possibility to regulate either the floor or room temperature, or combined (in this case, the floor sensor is used as temperature limiter)
- ON /OFF Main switch.
- Relay 16A .
- The product is supplied with two fronts and frames (Square and round) for system ELKO RS/B&J JUSSI and ELJO TREND .

TECHNICAL CHARACTERISTICS

Measuring accuracy	0.1°C
Operating temperature	0°C - 50°C
Setting temperature range	5° C – 37° C by 0.5° C step
Regulation Characteristics	Integral proportional band or Static differential. (adjustable in the installer's menu)
Electrical Protection	Class II - IP21
Color	Polar White RAL 9010
LCD back light	Blue
Main Switch	Two poles 16A
Power supply	230Vac +/- 10% 50Hz
Output	Relay 16A 250Vac resistive load (AC1)
Type of external sensor	CTN 10K 3M
Software version	The version is indicated in the installer menu.

DISPLAY & KEY

- Operating mode. (The active mode is framed)
- Override indicator.
- Heating indicator.
- Keyboard locked indicator.
- Type of sensor selected.
- Setting temperature or parameter value when "11" is displayed.
- Room or floor temperature indicator only in the user's menu.
- Title of the parameter when "11" is displayed. or Hour in program and Auto mode.
- Step number in program mode.
- Current day.
- Installer's or user's menu number.



- A: Escape key (to exit the current menu or reload the factory setting value)
- B: Main switch
- C: Joystick (To change mode or current value)

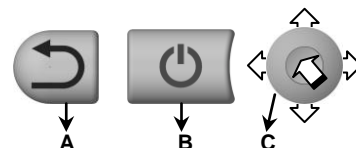
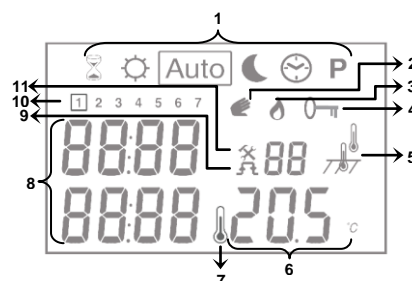
Wattstemp 750 and 760 Flush mounting thermostat series



External sensor
NTC type 10k Ω
at 25°C ($B = 3950$)





DISPLAY & KEY


- 1: Operating mode. (The active mode is framed)
- 2: Override indicator.
- 3: Heating indicator.
- 4: Keyboard locked indicator.
- 5: Type of sensor selected.
- 6: Setting temperature or parameter value when "11" is displayed.
- 7: Room or floor temperature indicator only in the user's menu.
- 8: Title of the parameter when "11" is displayed. or Hour in program and Auto mode.
- 9: Step number in program mode.
- 10: Current day.
- 11: Installer's or user's menu number.

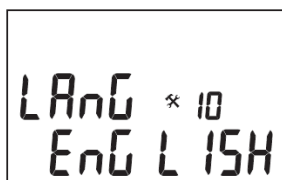


- A: Escape key (to exit the current menu or reload the factory setting value)
- B: Main switch
- C: Joystick (To change mode or current value)



How to accede it


In order to enter in the menu, use joystick , and select the comfort mode  Auto   P.

Then press on the escape key  during 10 seconds, the following display with the first parameter must be appears:






Once you entered in the menu, go to the parameter which you can change by using .

Use the joystick  to modify and confirm by pushing the joystick .

To leave the parameter menu, go to the parameter "END" and push the joystick .

Note:

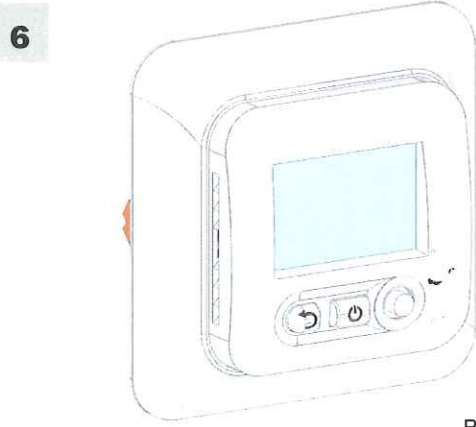
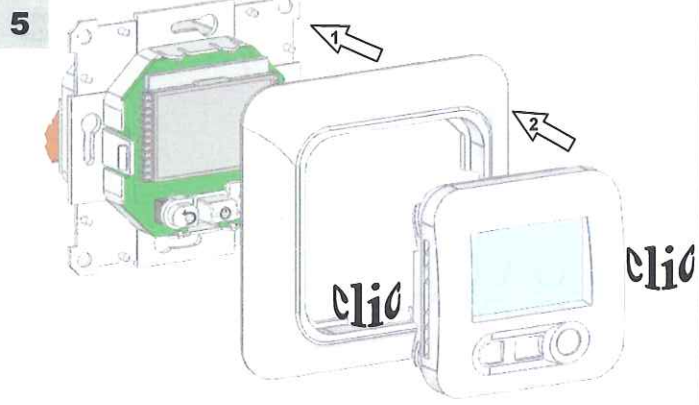
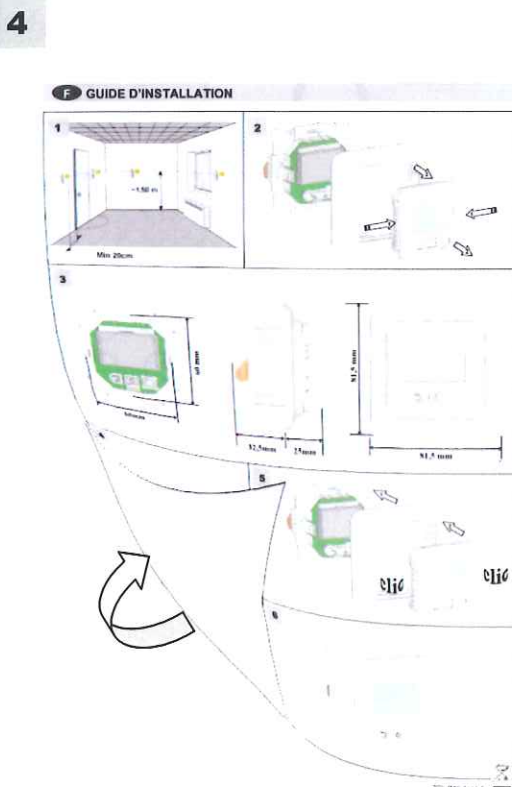
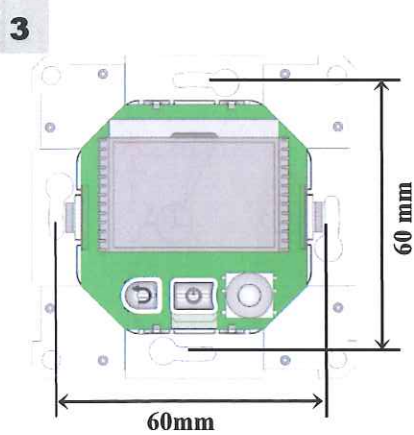
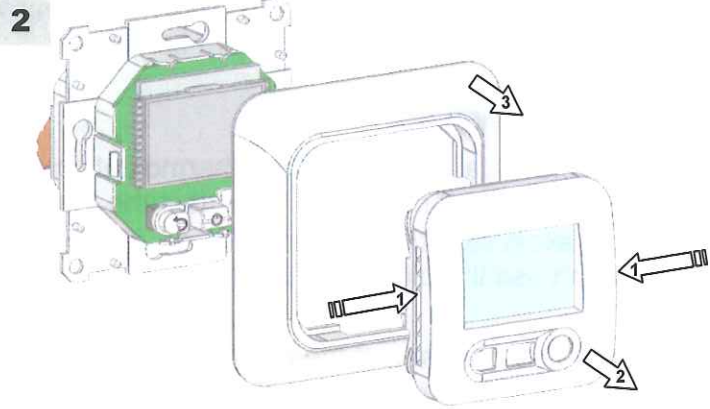
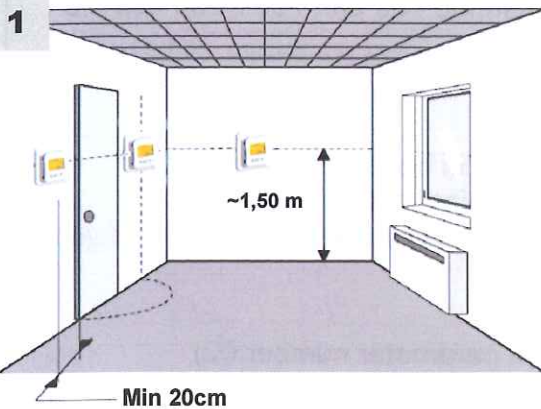
You could reload one parameter to the default value if you press the escape  key when the parameter value blinks.

Parameters		Installer's Advanced Menu		
number	names	Description of the parameter	Factory value	Other possibility
10	LANG	Selection the language for the both parameters menus.	"ENGLISH"	"FRANCAIS"
11	°C	Selection of the type of degrees displayed	"°C" For Celsius	"°F" For Fahrenheit
12	AIR	View of the measured values of the ambient sensor. The value display on the left is the internal user calibration. The value display on the right is the value used for regulation (with user calibration if the left value is different of 00)	"00 --"	
13	FLOOR	View of the measured values of the floor (external) sensor. The value display on the left is the internal user calibration. The value display on the right is the value used for regulation (with user calibration if the left value is different of 00)	"00 --"	
14	FL.LI	Floor sensor limitation type: With this parameter you can choose the function of the floor sensor limitation. Note: If you active one of the floor limitation you could also see it on the user menu parameter number "01"	"-- --" Without floor limitation	"LO --" Room sensor with floor limitation (Low limitation) "-- HI" Room sensor with floor limitation (Hight limitation) "LO HI" Room sensor with floor limitation (Hight and Low limitation)
15	FL.LI LO	Lower limit of the floor temperature. Only accessible if the floor lower limitation is selected on the parameter number "14".	"18"	From 5°C to "FL.LI" HI
16	FL.LI HI	Upper limit of the floor temperature. Only accessible if the floor upper limitation is selected on the parameter number "14".	"28"	From "FL.LI" LO to 37°C
17	REGU	Selection of regulation type	"BP" Proportional band (PWM)	"HYST" 0,5°C Hysteresis (On/Off)
18	BP	Value of the proportional band in °C Note: If the value of proportional band is too big the system reactivity will be slower and could affect the steps of the program.	"2.0" Ideal value for all Electrical floors heating application.	Adjustable 1°C to 7°C A well insulated house « 1.5 » A not insulated house « 4°C »
19	T CY	Selection of the proportional band duration in minutes (cycle duration)	"10" Ideal value for all Electrical floors heating application.	You could increase this value if the thermostat is used for other heating application (Oil Boiler...)
20	T ON	Minimal starting time in minutes	"002"	Adjustable "0" to T CY/2
21	T OFF	Minimal resting time between 2 heating cycles in minutes	"002"	Adjustable "0" to T CY/2
28	ALL RESET	All parameters will be reloaded with the factory value.	Press on the joystick  during few seconds.	
29	END	To exit the installer's menu	Press on the joystick  to exit.	



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Installation guide for Wattstemp 750 and 760



You can drive directly up to 10 Amps (2300W) with the Wattstemp 750 and 760 (fig1), To keep the better regulation if you need to drive more power than 2300W you must install a power relay (fig2).

You could only drive up to 3600W directly with your Wattstemp 750 and 760 if you use the external sensor has deported ambient sensor.

Mounting instruction:

- All electrical conduits to the thermostat box that contain heating cable and floor sensors must be sealed to protect the thermostat against hot air currents.
- To avoid electrical perturbation do not connect the pilot wire on the thermostat if you don't use the pilot wire function.



Don't forget to adjust the power of load. (Installation parameter number 02)

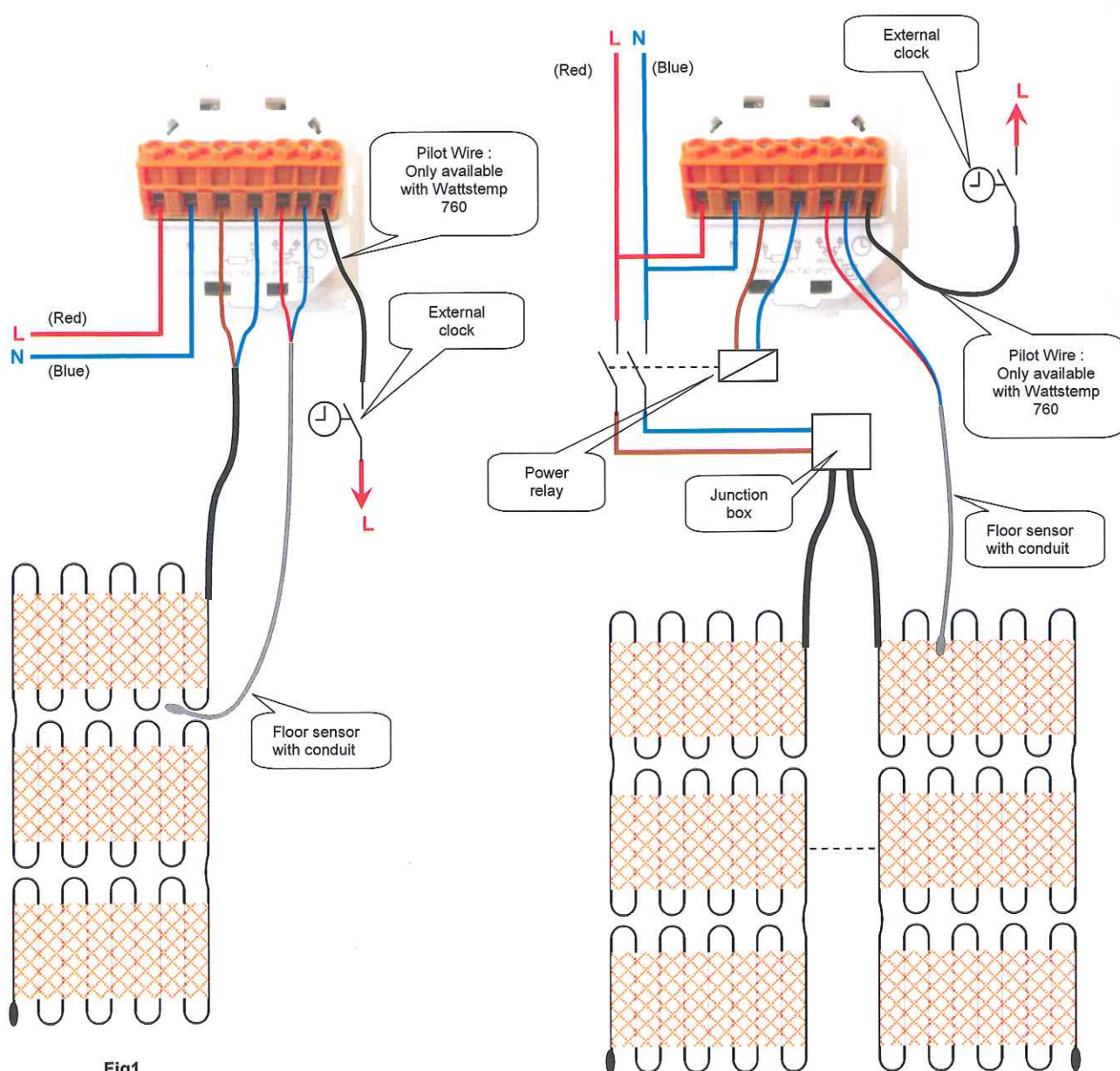


Fig1
One or more loops with a maximum power of 2300W

Fig2
Several loops with a maximum power of 3600W