

TOUCH E3



INSTALLATION AND OPERATING MANUAL

FOR THE INSTALLER

INSTALLATION OF THE TOUCH SCREEN



01. Main characteristics

- Touch screen (4 inches)
- Interface via internet. WiFi 2.4 GHz (not 5.0 GHz)
- Wall mountable with power supply 85-265V (50-60)Hz
- Can be placed on the table with supplied bracket, and mini USB power supply (5V)
- Battery operation (only for settings)
- RF Communication with other devices
- Multiple heating device control
- SD Card update
- Intuitive menus for device management

! *Charge the Touch E3 for at least one hour before pairing the devices already mounted.*

02. Connecting to Touch E3

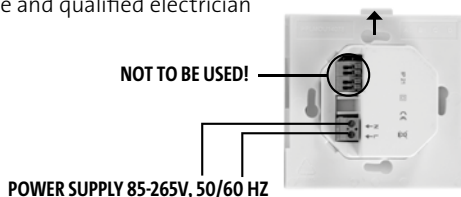


- Up to 50 rooms (zones) with one master radiator in each room
 - Up to 50 slave radiators to be distributed among the masters
- Examples: **a)** 50 zones with 1 master and 1 slave in each, total 100 radiators
b) 1 zone with 1 master and 50 slaves, total 51 radiators
- It is recommended to limit the number of slaves to 10 in one zone.

TEMP. PRECISION:	0.1°C
ENVIRONMENTAL CONDITIONS: - Operating temperature - Shipping and storage temp.	-0°C to +40°C -30°C to +50°C
SETTING TEMPERATURE RANGE: - Comfort mode - Reduced mode - Frost protection mode	+5.5°C to +30°C, must be higher than the reduced mode temperature. +5°C to +19°C, must be lower than Comfort mode temperature. +0.5°C to +10°C
ELECTRICAL INSULATION:	Class II
ELECTRICAL PROTECTION:	IP 30
RADIO FREQUENCY: - Range outside - Range indoor (typical)	868 MHz, <10mW 200 m Around 15 m
WIFI FREQUENCY:	2.4 GHz (not 5.0 GHz)
SOFTWARE VERSION	Can be found at the bottom of the Main menu: xx.xx Can be found at the bottom right of the Wifi menu: xxxx xx.xx
POWER SUPPLY	85-265V 50-60 Hz
CE DIRECTIVES: Your product has been designed in conformity with the European Directives.	LV Directive 2006/95/EC EMC Directive 2004/108/EC R&TTE Directive 1999/5/EC RoHS 2011/65/EU

03. Wall mounting

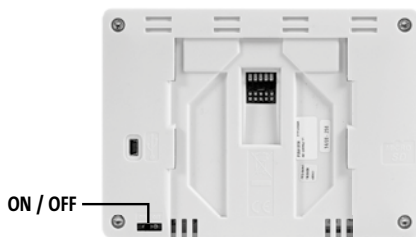
- Connect the power supply as described below. The electrical installation must comply with local or national regulations. The product should be connected by a suitable and qualified electrician



- Screw the power supply on to the wall
- NOTE: The tab must be located at the top.**



- Put the switch into the **ON** position by using a small pin



- Mount the Touch E3 on the power supply and slide it down until it stops
- The Touch E3 is now ready for use

04. Table installation



- Connect the mini USB cable and charger to the Touch E3
- Mount the Touch E3 onto the bracket by sliding it down until it stops
- Put the switch into the **ON** position by using a small pin
- The Touch E3 is now ready for use

05. General pictograms



to return to the "Start screen"



to return to the previous screen



the buttons with *a red dot require a long press*

SETTING LANGUAGE, TIME AND DATE

01. Press "Main menu" button **A**

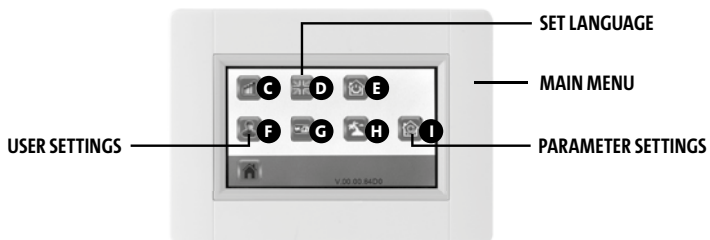


02. Press "Set language" button **D**

- The flag of the current language is displayed

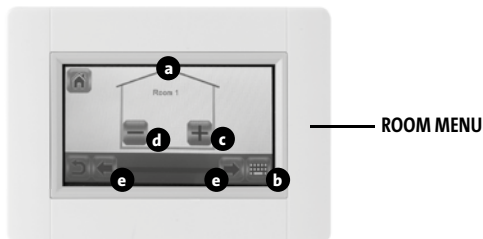
03. Press "User settings" button **F**

- Set the current time and date



CREATE HOUSE

01. Press "Main menu" button **A**
02. Press the "Parameter settings" button **I** (long press)
03. Press the "House creation" button
 - Create all the rooms (or zones)



- a** Current room name
- b** To change the current room name
- c** To add a room
- d** To delete the current room
- e** Room selection

PAIRING RADIATORS

01. Press "Main menu" button **A**
02. Press the "Parameter setting" button **I** (long press)



- >> Select radio pairing
- Choose device, press "Heating"
- Select room

- Press "Green check" button to confirm
 - Device (Radiator or Remote Control) to measure the temperature **must be paired first in this zone!**
 - Press "Green check" button to confirm
03. Put the device (radiator or remote control) in pairing mode
- See device leaflet or manual

EXAMPLE:

Press and hold the "OK" key for 5 seconds

rFi: Wireless Radio initialisation (pairing)

Press "OK" to enter this initialisation sequence.

Select with "+" or "-" the radio communication type and validate by pressing "OK":

- **rF.un**: unidirectional communication, the digital thermostat only receives orders from an RF central programmer.
- **rF.bi**: bidirectional communication with an Touch E3. The digital thermostat communicates state and power consumptions to the Touch E3.

Then the backlight will switch off and the digits will cycle showing that the digital thermostat is waiting for a radio link signal from a Central programmer or Touch E3 to be received (press "◀" to cancel radio initialisation). When the radio link signal is received, pairing is saved, then it will return to Auto mode.



**RADIO PAIRING
BUTTON**

- Start the pairing by pressing "radio pairing" button **f**
- Follow the instruction on the screen (depending on the type of device)
- Repeat the steps for all devices, starting at >> Select radio pairing

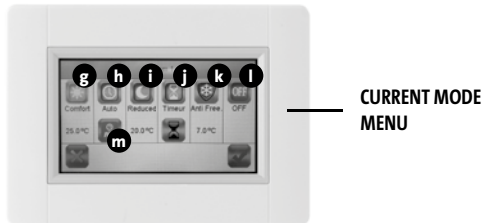
04. Installation types (Type 1)



FOR THE INSTALLER AND USERS

DEFINE A MODE TO A ZONE/ROOM

01. From the "Start screen", press "Home" button **B**
02. Press "Current mode" button **E** (See "Heating Device Management" section, p 15).
Showing anti-freeze mode the first time



- g Comfort mode:**
Set the comfort temperature in this mode. The radiator will remain at this temperature.
 - h Auto mode:** The room temperature will follow the selected program.
 - i Reduced mode:**
Set the reduced temperature in this mode. The radiator will remain at this temperature.
 - j Timer mode:**
 - To define the time, press the "Black hour glass" button
 - Define the time (3 minutes - 44 days)
 - Press the "White hour glass" button
 - Define temperature by pressing "+" or "-"
 - k Frost protection mode:**
Set the Frost protection temperature in this mode. The radiator will remain at this temperature.
 - l Off mode:**
The radiators will not heat. **NOTE:** Your house's water pipes may freeze in this mode. **WARNING:** The radiators are still connected to the electrical supply.
 - m Program Setting:** For selecting the program to be followed when in Auto mode
03. Press the desired mode button
 04. Press the "Green check" button

DEFINING TEMPERATURES FOR EACH ZONE, BOTH FOR COMFORT AND REDUCED MODE.

01. From the "Start screen", press "Home" button **B**
02. >> Press "Current mode" button **E** (See "Heating Device Management" section, p 15)
03. Press the "Comfort" **☒** or "Reduced" **☒** button
04. Press "Green check" button to confirm
05. Press "+" or "-" to set the temperature
06. Press "Heating" button **1** to save the temperature
07. Press the arrows **2** to change room. Or press button **9** to see all rooms.
Repeat from >> **02**

DEFINE WEEKLY PROGRAM FOR EACH ROOM



You have the possibility to **SELECT** a pre-defined program, **CREATE** a new program or **EDIT** (make small changes) to a program you have created yourself.

TO SELECT

01. From the "Start screen", press "Home" button **B**
02. Press the arrows **2** to change room. Or press button **9** to see all rooms
03. Press "Current mode" button **E** (See "Heating Device Management" section, p 15)
04. Press "Program Setting" button **m**
05. Press "Select" to choose any of the stored programs. There are 5 pre-defined programs available
06. Press "Green check" button to select a program
07. Warning sign, press "Green check" button
08. Press the "back" button
09. Press the "clock" button
10. Press "Green check" button

TO CREATE

01. From the "Start screen", press "Home" button **B**
02. Press the arrows **2** to change room. Or press button **9** to see all rooms
03. Press "Current mode" button **E** (See "Heating Device Management" section, p 15)
04. Press "Program Setting" button **m**
05. Press "Create" to define your own program
06. >> Select the days that you want to program in the same way. When a day is:
 - Red, it is not programmed
 - Grey, currently selected for programming
 - Green, it is programmed

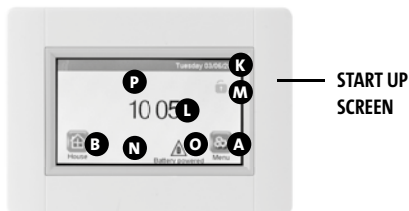
07. Initially, the reduced mode is set for 24 h (15 minute periods). Press the "Comfort"  or "Reduced"  buttons to create the program. The cursor can also be moved by pressing the arrow buttons **2**
08. Press "Green check" button to confirm these days and repeat until all days are green >> **05**
09. Once all the days are green, press the "Green check" button
10. Warning sign, press "Green check" button
11. Press the "back" button
12. Press the "clock" button
13. Press "Green check" button to confirm



TO EDIT

01. From the "Start screen", press "Home" button **B**
02. Press "Current mode" button **3** (See "Heating Device Management" section, p 15)
03. Press "Program Setting" button **m**
04. >> To edit a created program, press "Edit" button
05. Select the day you want to change
06. Make any desired changes
07. Press "Green check" button
08. Warning sign, press "Green check" button. If desired, repeat from >> **04**
09. Press the "back" button
10. Press the "clock" button
11. Press "Green check" button to confirm

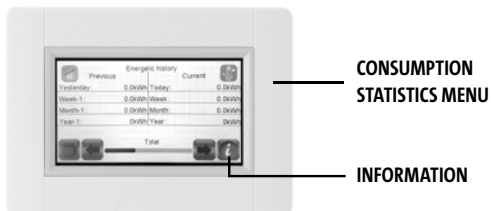
FOR USERS



- K** Day and date
- L** Displays either time or temperature of a selected room. Change by pressing temp/time value in the center of the screen and then choose which room's temperature you want to display
- M** Screen lock. Press on the icon and enter the default code **"1066"** or enter the code you have configured in Installation menu >> Screen lock
- N** Error indicator, only visible when active. Access the list by pressing the icon
- O** Powered by battery, only visible when disconnected. Touch E3 should be connected to a power supply during normal use
- B** House/Rooms access (only possible to view, not to change the settings when the screen is locked)
- P** Holiday mode, only visible when active
- A** To access "Main menu"



- C** Consumption statistics menu
 - Press "heating"
 - Check current or previous consumption period for the whole installation or by room, per day/week/month/year
 - To present the information graphically, press the "information button"
 - To delete history, press the "trash can" button (long press)



D Language setting. The flag of the current language is displayed

E Mode menu

- Use this menu to set all radiators in the house to the same mode
- Press button **n** until desired mode appears (An “empty button” means that different zones could be in different modes)
- Press the “Green check” button. It will take a few minutes before all units have received the new information



F User settings

- In this menu, it is possible to set
 - Date and time
 - Summer -Winter time settings
 - Temperature and time units
 - Background Colour
 - Buttons colour
 - Backlight
 - Screen
 - Reset User settings to factory settings

G WiFi

- If button is grey, wait until it is coloured. Press the button and you may read the IP-address when the unit is connected to the internet via a WiFi-router and the units MAC address. When you pair the Touch E3 to a server, you should typepassword you receive by mail in “internet access password”
See also “WiFi settings” section, page 18

H Holiday mode

- Define time and date of departure

- Press the "Green check" button
- Define time and date of return
- Press the "Green check" button
- Define a mode to whole installation (See Mode menu **E**).
To cancel, press so the button is "empty"
- Press the "Green check" button.
After the start or end time, it will take a few minutes before all units have received the new information



I Installation (House creation menu)

- House creation (See "Create house" section, p 6)
- Radio pairing (See "pairing radiators" section, p 6)
- Screen lock (See "Other functions for the installer" section, p 17)

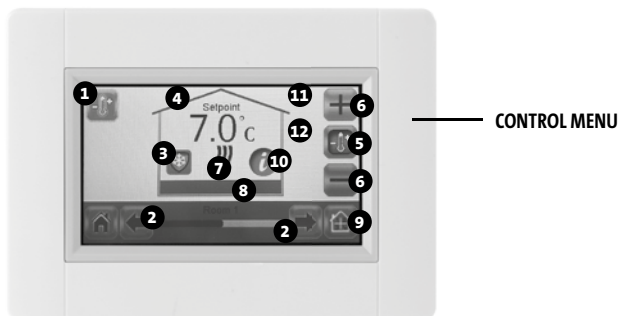


- Delete a device (See "Other functions for the installer" section, p 16)
- Delete all devices (See "Other functions for the installer" section, p 16)
- Identify a device (See "Other functions for the installer" section, p 16)
- Heating Settings (See "Other functions for the installer" section, p 17)



- WiFi settings (See "WiFi settings" section, p 18)
- General factory default (See "Other functions for the installer" section, p 17)
- Update Firmware (See "Other functions for the installer" section, p 17)

HEATING DEVICE MANAGEMENT



- ❶ Heating button. Could be used for validation of temperature setting to speed up the change
- ❷ Room selection
- ❸ "Current mode", press to alter mode
- ❹ Set point temperature, or Ambient temperature value.
- ❺ Press to toggle between values in point ❹
- ❻ Press to increase or decrease the setpoint. Does not need to be validated
- ❼ Heating indicator (animated when heating)
- ❽ Current room name
- ❾ Quick access to "Room menu"
- ❿ Information button
- ⓫ Only displayed when screen is locked
- ⓬ Shows a "moon" symbol if radiator is in reduced mode by external signal

FOR THE INSTALLER AND FOR ADVANCED USERS

OTHER FUNCTIONS FOR THE INSTALLER

01. Press "Main menu" button **A**
02. Press the "Parameter setting" button **I** (long press)
03. Create house (See "Create house" section, p 6)
04. Radio pairing (See "pairing radiators" section, p 6)
05. To delete a device
 - Press "Delete a device" button
 - Press "heating" button
 - Use the arrows to scroll through the list of paired devices
 - Select the device to be deleted
 - Note: To make sure that the right device is deleted, identify it first (See below)
 - Note: If the first device in a room is deleted, all devices in that room will be deleted
 - Press "Green check" button to confirm
06. To delete all devices
 - Press "Delete all devices" button
 - Press "Green check" button to confirm
 - Press "Red cross" to decline
07. Identify a device and edit some device information; such as name, power, surface temperature limitations and sequential mode.
 - Press "Identify a device" button
 - Press the "Radio button"
 - Make the device send a radio message
 - (On Electrorad Digi Line, press OK and wait for the backlight to go off)
 - Make a note of the ID-number that is displayed on 3rd line of the screen **>>**
 - To be sure it is right, send a second radio message from the device and compare the ID-number (it could happen that another device coincidentally sends a message at the same time, therefore it is good to repeat this operation)

- If you want to edit device information/settings, press the button with a Red dot (long Press):
 - Device name
 - Power
 - Set front panel max surface temperature level
 - > Press "Heating rate maximum level" rate
 - > Select P1, P2 or P3. NOTE: the first paired radiator must have the same or higher value than the rest of the radiators in the room, otherwise the energy calculation will be wrong
 - > Press "Green check" button to confirm
 - For double radiator, change to sequential control
 - > Press "Sequential control" button
 - > Select "No"(default setting) if the radiator's front and back panel should be evenly heated
 - > Select "Yes" if the radiator's front and back panel should be heated sequentially
 - > Press "Green check" button to confirm.

08. Screen lock

- Press "Screen lock" button
 - Enter your personalised code (it must contain 4 characters)
 - Press "Green check" button to confirm
- Note:** the default code is **1066**

09. Heating settings

Set Minimum and Maximum allowed temperatures in each room.

- Press "Heating Settings" button
- Press a room button

10. WiFi settings (See "WiFi settings" section, p 18)

11. General factory default (all updates and user data will be erased except WiFi-settings. They are reset under WiFi settings (See "WiFi settings" section, p 18) by pressing the the Red "Reset" button (long press)

- Press "Green check" button to confirm
- Press "Red cross" to decline

12. Update firmware

- Insert SD card with new firmware
- Press "Update firmware"
- Press "Green check" button to confirm
- Press "Red cross" to decline

WIFI SETTINGS

CONNECT THE TOUCH E3 TO YOUR WIFI

01. Press "Main menu" button **A**
02. Press the "Parameter setting" button **1** (long press)
03. Select the "WiFi settings" button



WIFI
SETTINGS

You can then enter the WiFi setting manually or perform a WiFi scan.



Perform a WiFi scan.

01. Press the "Research networks" button. A list of available WiFi networks will be displayed after some time. Repeat at least twice if your desired WiFi network is not displayed. If your desired WiFi network is still not displayed, enter the WiFi settings manually (see below section)
 02. Select your desired WiFi network
 03. Select the encryption type of your WiFi network (e.g. WEP, WPA)
 04. Enter the key code / password for your WiFi network
- If your WiFi network name is not discovered after a scan, you can connect manually (see below)

Enter the WiFi setting manually

01. Enter your WiFi network name
02. Select the encryption type of your WiFi network (e.g. WEP, WPA)
03. Enter the key code / password for your WiFi network

When your WiFi connection succeeds, a green flag should be displayed, which can take up to 1 minute to show this. If needed, the "Reset" button (long press) allows reinitialising your WiFi setting.

ACCESS TO TOUCH E3 VIA PC

01. Access the TOUCH E3 from <http://www.lvi.eu/clevertouch>
(In France <http://www.lvifrance.fr/clevertouch>)
02. Create an account
03. Validate your email

Request a pairing code to link your Touch E3 to your account. The pairing code (valid 24h) is sent on your email.

By going in the Touch E3 from the "Main menu" to the "WiFi menu", press the "Internet access password" button, and enter the pairing code. The green flag indicates that the Touch E3 is connected. Your Touch E3 should appear after a few minutes on the web page. You can then drive your Touch E3 from anywhere.

ACCESS TO TOUCH E3 VIA SMARTPHONE

01. Download the free App "CLEVER TOUCH" from Appstore or Google play
02. Create an account
03. Validate your email

Request a pairing code to link your Touch E3 to your account. The pairing code (valid 24h) is sent on your email.

By going in the Touch E3 from the "Main menu" to the "WiFi menu", press the "Internet access password" button, and enter the pairing code. The green flag indicates that the Touch E3 is connected. Your Touch E3 should appear after a few minutes in the Clever Touch app. You can then drive your Touch E3 from anywhere.

Connecting your Touch E3 to the app will create data traffic on your router. It will depend on how many devices you have paired to your Touch E3 but it will be between 0,4 and 1,1 Gb/month with the Touch E3 alone. If you continuously are logged in to the app, the traffic will increase to between 1,5 and 2,2 Gb/month. If the amount of data traffic is an issue, it is recommended to log out from the app when not in use.

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