



DELTA DORE

WM2739-0026 Ver.1



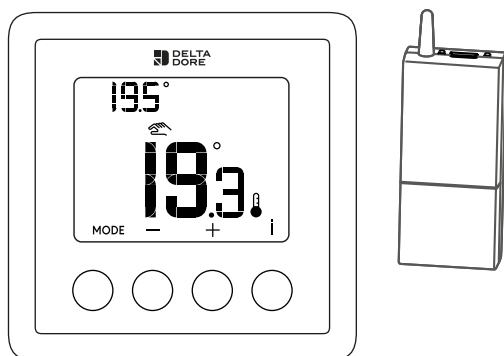
Installation instructions

Tybox RF 130 range

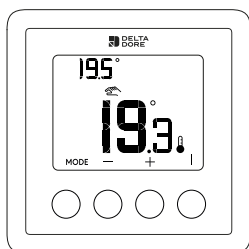
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Tybox RF 130 is a pack composed of a **Tybox Control** wireless thermostat and an **RF 7130** receiver (16A radio receiver for electric radiator).

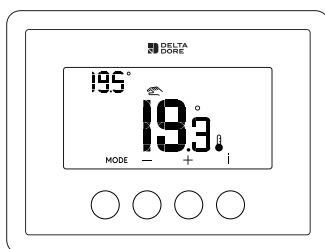
The thermostat and receiver are also available not in a pack, sold separately.



Tybox Control is available in 2 formats (square and rectangular). There is also a black version (BK) for the square format.



Tybox Control
Tybox Control BK



Tybox Control XL

Contents

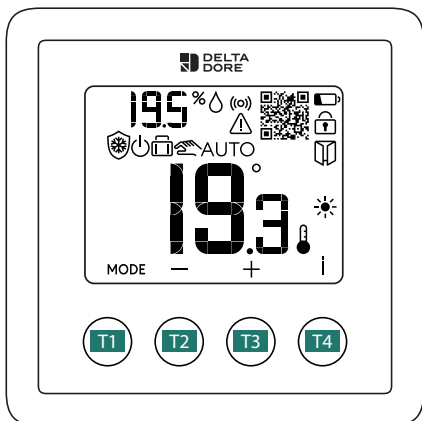
Installation

1. Presentation	3
1.1 Description of the thermostat	3
1.2 Navigation	3
1.3 Description of the receiver	4
2. Installation of the thermostat	5
2.1 Location	5
2.2 Placing on an item of furniture	5
2.3 Wall-mounting	5
3. Installing the receiver.....	6
3.1 Location	6
3.2 Mounting / Connection	6
4. Pairing the receiver with the Tybox Control.....	7
5. Thermostat configuration.....	8
5.1 Locks and limitations	8
5.2 Installation settings (i).....	9
5.3 User settings (U).....	11
6. Logging into the Tydom app	13
7. Associating a receiver or a repeater with a Tybox Control	14
8. Associating a door/window magnetic contact	14
9. Troubleshooting	15
9.1 Child lock	15
9.2 Possible errors	15
9.3 Low battery warning / Changing the batteries	15
9.4 Temperature setting limitation	16
9.5 Wireless diagnostics	16
9.6 Deleting wireless associations	16
9.7 Settings reset	17
9.8 Lost access code	17
9.9 Technical specifications	18

1. Presentation

1.1 Description of the thermostat

The interface is designed to be simple and user-friendly, for smooth navigation.



The illustrations in these instructions are based on the screen of the Tybox Control in the square version, however, the indications and symbols displayed are exactly the same for the rectangular version (XL).



Access to the online user manual



Shutdown mode with frost protection



Off mode



Absence mode



Manual mode

AUTO

Smart mode



Ambient temperature



Child lock



Open window



Heating request in progress



Humidity level



Low batteries



Wireless fault



Fault

To make this manual easier to read, we have labelled the navigation and control keys **T1** to **T4**.

1.2 Navigation

In normal use (excluding the settings menus), the thermostat gradually switches to standby after 30 seconds without action.

To perform any operation, press a button to "wake up" the display.

Once the screen is awake, you can navigate the various menus.

The MODE button (T1) provides quick access to the manual, absence, auto (if smart) or off modes.

Use the < and > buttons to select the menu.

Use the + and - buttons to change the settings.

The ✓ button is used to confirm any changes.

Press X to exit the menu.

Press the i button to check the status of your installation.

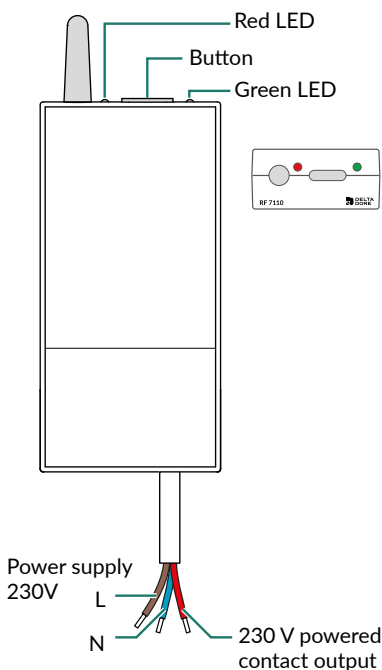
1.3 Description of the receiver

16A radio receiver for electric radiator

The receiver is fitted with a 3-wire cable which must be connected as described in this manual.

All installation and operation operations are carried out from the thermostat housing with display.

The LEDs and buttons on the receiver should be used primarily for diagnostic and maintenance purposes.



Alert type	What the lights mean
The GREEN light is on and steady.	Power supply is on.
The RED light is on and steady	The receiver is requesting heat.
The RED light is slowly flashing	The receiver is pending pairing. Please refer to the chapter " Associating a receiver ", page 14.
The RED light is flashing quickly	The deletion of the pairing between the receiver and a door/window sensor is pending.
The GREEN light is flashing	The receiver isn't associated. Please refer to the chapter " Associating a receiver ", page 14.
Both LEDs are flashing simultaneously.	- After a mains power cut: return to normal within a maximum of 5 minutes. - If communication with the transmitter is lost for more than one hour. Wake up the transmitter by pressing a button. If the problem persists, make sure that the transmitter is not too far away and that you have followed the mounting/placement instructions properly. The receiver then operates in emergency mode (*).

(*) **Function in backup mode:**

- When switching to backup mode, if the receiver control was off, it stays off otherwise it switches to emergency Frost protection.

- In this backup mode, pressing the button authorises a manual override.

3 control types are available and are shown by means of the flashing of the LEDs:

- 1 flash: Off,
- 2 flashes: Emergency frost protection (heating 15% of the time),
- 3 flashes: Emergency Comfort (heating 75% of the time), 24 hour timer.

You can switch from one to the other by briefly pressing the button.

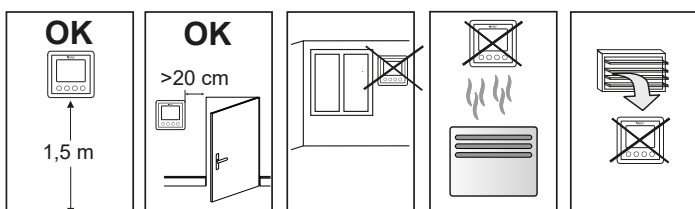
INSTALLATION

2. Installation of the thermostat

2.1 Location

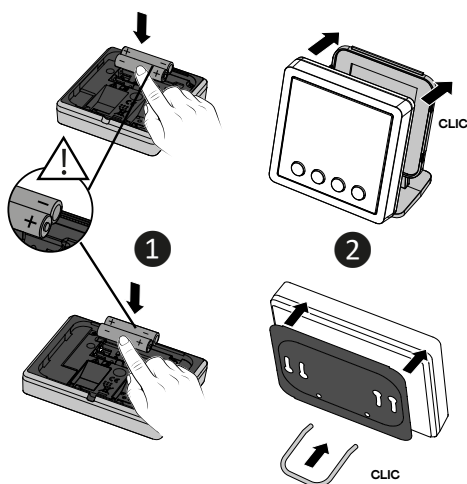
Position your thermostat in the main room or in the centre of your home. Place it on a shelf or piece of furniture using the stand supplied, or fix it to a wall that is not an outside wall or in an unheated room (height approx. 1.50 m).

Install your thermostat away from sources of heat (e.g. fireplace, influence of the sun, direct sunlight...) and draughts (window, door).



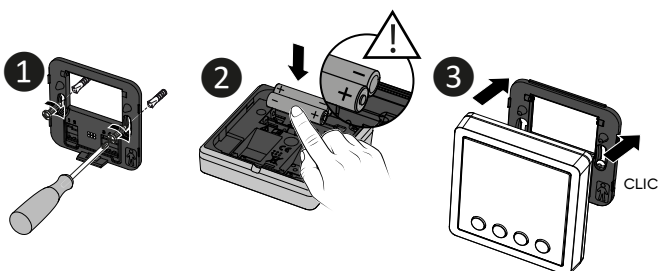
2.2 Placing on an item of furniture

- 1** Insert the batteries at the back of the housing.
Make sure that you insert the batteries facing the right way and that they are the right type (no Lithium or rechargeable batteries).
- 2** **Square version :** Clip the front of the room thermostat onto the stand.
Rectangular version: Clip the wall plate onto the back of the room thermostat then insert the support.



2.3 Wall-mounting

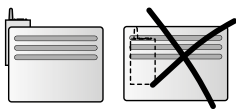
- 1** Secure the wall plate using suitable screws and dowels.
- 2** Insert the batteries at the back of the housing.
Make sure that you insert the batteries facing the right way and that they are the right type (no Lithium or rechargeable batteries).
- 3** Clip the front of the room thermostat onto the wall plate.



3. Installing the receiver

3.1 Location

The antenna of the receiver must be clear of any metallic surface.

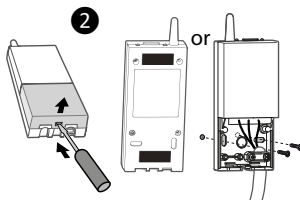


3.2 Mounting / Connection

❶ First of all, switch off the power to your installation.

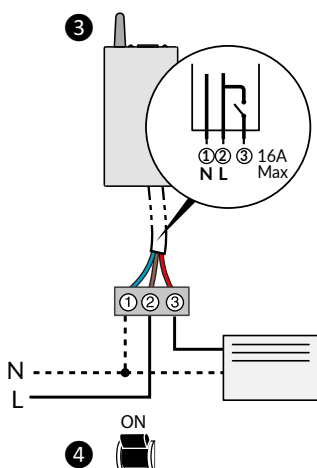


❷ The receiver can be secured by adhesive (supplied) or with screws.



❸ You must make sure you comply with the wire colours when wiring.
Blue: Neutral
Brown: Phase
Red: Contact.

❹ Once the receiver is connected, turn on the power to your installation.

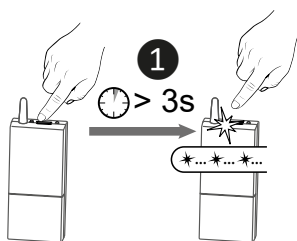


Important:

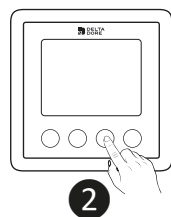
- The power cable for this product cannot be replaced; if the cable is damaged, the device must be disposed of.
- If the radiator has its own temperature setting, set its temperature to the maximum.

4. Pairing the receiver with the Tybox Control

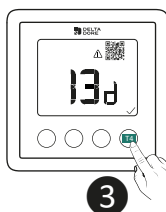
- 1 Press the receiver/repeater button for 3 seconds until the red LED flashes. Release the button.



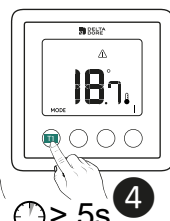
- 2 Press any button to activate the display screen.



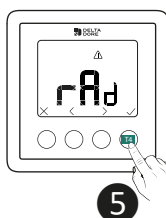
- 3 The screen displays "13d". Confirm with ✓ (T4).



- 4 Press MODE (T1) for 5 seconds until rAd is displayed.



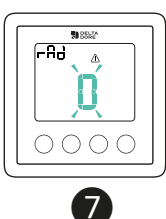
- 5 The screen displays rAd. Confirm with ✓ (T4).



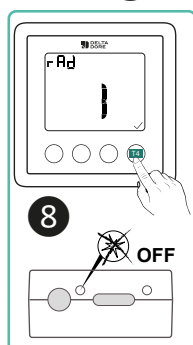
- 6 The screen displays Add. Confirm with ✓ (T4).



- 7 The display flashes until the pairing between the thermostat and the receiver is complete.



- 8 When the display stops flashing, it updates the number of paired receivers. Confirm with ✓ (T4). The receiver LED stops flashing too.



5. Thermostat configuration

Make sure the receiver is switched on to access all the settings. If the settings offered by the thermostat do not correspond to this list, the receiver is probably not communicating with your thermostat: pairing not performed, receiver powered down, receiver too far away.

The **U** and **i** menus will allow you to customise your installation.

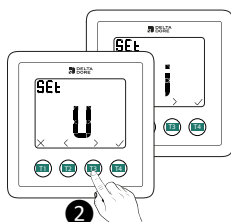
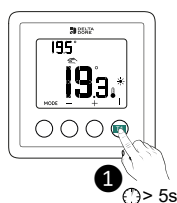
1 Press **i** (T4) for 5 seconds, until "U" is displayed (user settings menu).

2 To move from one menu to another (Use / Installation), press **<** or **>** (T2 or T3).

3 Confirm your choice by pressing **✓** (T4).

4 Select the setting to be modified using the **<** or **>** keys (T2 or T3), then confirm with **✓** (T4).

5 Press the **+** or **-** keys to change the value (T2 or T3), then confirm with **✓** (T4).



i 	Installation i01: Type of lock i02 : Installer access code i21 - i22: Temperature setting limitation i41: Activation of the door/window magnetic contact i42: Door/window magnetic contact time delay i46: Activation of frost protection i47: Setting the frost protection setpoint temperature
U 	Use U01: User code U02: Type of lock U03: Child lock U21: Correcting the measured temperature U31 - U32: Display settings U33 - U34: Display settings in Standby mode U35: Backlight activation U36: Display settings in Shutdown mode

5.1 Locks and limitations

The thermostat settings allow different types of locks and limitations.

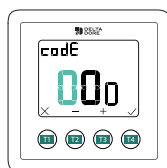
In the case of an installation where several receivers are associated with the same Tybox Control: if certain settings must be configured specific to each receiver, the receiver(s) not concerned must be switched off when applying this new setting. When viewed, the screen displays "-" when the values are different.

	Shutters
Access to the installation settings menu	i01 Locking by access code (U01 and i02)
Access to the user settings menu	
Choosing the mode and changing the set-point	U02
Limitation of the settings	i21 - i22
Child lock (No buttons are active)	U03

5.2 Installation settings (i)

If the installation setting i01 is not 0, you will be asked for an access code (000 by default).

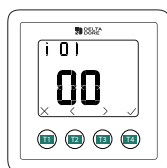
Entering the access code: choose the digit using + or -, confirm with √ and move on to the next digit.



i01: Type of lock

This menu is used to protect access to the installation and/or user menus by means of a customisable code.

- 1 From the "i01" display, press √ (T4).
- 2 Press - or + (T2 or T3) to set the setting value and confirm your choice by pressing √ (T4).



	Access to the installation settings menu	Access to the user settings menu
00	-	-
01	🔒 Unlocking by installer access code (i02)	-
02	🔒 Unlocking by installer access code (i02)	
03	🔒 Unlocking by installer access code (i02)	🔒 Unlocking by user access code (U01)

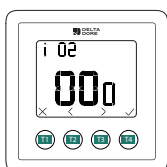
i02 : Installer access code

This menu is used to change the 3-digit installer code ("000" by default), which is only available if setting i01 is not 0.

The installer code locks access to the following functions:

- User settings (if i01=2),
- Installation settings
- Association and deletion of a wireless product,
- Thermostat reset (return to default settings),
- Wireless diagnostic display.

- 1 From the "i02" display, press √ (T4).
The screen displays "000" The 1st figure flashes.
- 2 Press - or + (T2 or T3) to set and press √ (T4) to confirm and move to the next digit.
- 3 Repeat the operations to determine the 3 digits of the installer access code.



i21 - i22: Temperature setting limitation

The set point temperature can be adjusted from 5°C to 30°C.
The values i21-i22 will be taken into account the next time the set-point is adjusted from the Tybox Control.

It is possible to limit the setting range between a maximum value (i21) and a minimum value (i22):

i21: max. value (adjustable from i22 to 30°C)

i22: minimum value (adjustable from 5°C to i21)

- 1 From the "i21" display, press √ (T4).
The temperature display flashes.
 - 2 Press - or + (T2 or T3) to set the new value and press √ (T4) to confirm.
- Restart operations 1 and 2 to set i22.

i41: Activation of the door/window magnetic contact

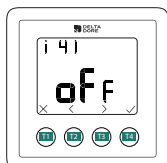
Enables or disables the door/window magnetic contact function.
There can be 2 types of door/window magnetic contact function:

	Without sensor	With sensor
Detection type	Temperature measurement inside the thermostat	Associating a wireless door/window magnetic contact (optional)
Detection delay	After several minutes ^(*)	After 10 seconds
Term	15 or 30 minutes (setting i42)	As long as the window is open
Use case	Home Daily ventilation	Any type of building Monitoring openings

(*) dependent on climatic conditions and installation (thermostat positioning, building inertia, etc.).

- 1 From the "i41" display, press √ (T4).
- 2 Press - or + (T2 or T3) to set the setting value and confirm your choice by pressing √ (T4):

On	Window/door magnetic contact active
Off	Window/door magnetic contact inactive



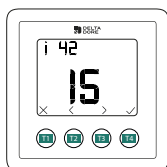
Associating a door/window magnetic contact automatically sets setting i41 to on.

i42: Door/window magnetic contact time delay

This menu is only linked to the sensorless door/window magnetic contact function. If a window is detected as being open, the heating is switched off and restarted automatically after an adjustable time delay.

- 1 From the "i42" display, press √ (T4).
- 2 Press - or + (T2 or T3) to set the setting value and confirm your choice by pressing √ (T4):

15	15 minutes time delay.
30	30 minutes time delay.

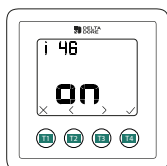


i46: Activation of frost protection

The installation can benefit from frost protection (the pictogram  appears on the screen) when the thermostat is switched off using the Mode button (T1). This protection is an option that can be activated from the i46 menu.

- 1 From the "i46" display, press √ (T4).
- 2 Press - or + (T2 or T3) to set the setting value and confirm your choice by pressing √ (T4):

On	Frost protection activated
Off	Frost protection deactivated

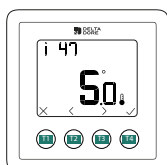


i47: Setting the frost protection setpoint temperature

This setpoint temperature applies in Off mode if Frost Protection is activated (i46=on), and when an open window is detected.

The Frost protection set point temperature can be adjusted from 5°C to 16°C.

- 1 From the "i47" display, press √ (T4).
- 2 Press - or + (T2 or T3) to set the desired value and confirm your choice by pressing √ (T4).

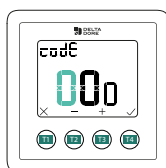


5.3 User settings (U)

If installation parameter i01 =3, you will be asked for the user access code (000 by default).

If installation parameter i01 =2, you will be asked for the installer access code (000 by default).

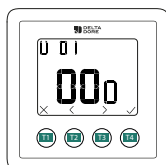
Entering the access code: choose the digit using + or -, confirm with ✓ and move on to the next digit.



U01: User code

This menu can only be accessed if i01 = 3. This menu is used to change the user code (3 digits, "000" by default), which locks access to the user settings.

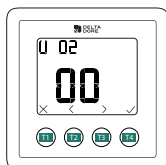
- 1 From the "U01" display, press ✓ (T4).
The screen displays "000" The 1st figure flashes.
- 2 Press - or + (T2 or T3) to set the 1st digit.
Press ✓ (T4) to confirm and move on to the next digit.
- 3 Press - or + (T2 or T3) to set the 2nd digit.
Press ✓ (T4) to confirm and move on to the next digit.
- 4 Press - or + (T2 or T3) to set the 3rd digit.
Press ✓ (T4) to confirm and exit the menu.



U02: Type of lock

This menu allows you to set the desired locking level.

- 1 From the "U02" display, press ✓ (T4).
- 2 Press - or + (T2 or T3) to set the setting value and confirm your choice by pressing ✓ (T4).

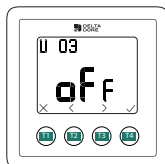


	Modes			Set-point temperature
	STOP			
00	-	-	-	-
01			-	-
02				-
03				

U03: Child lock

If you activate the child lock, the buttons will not function and changes to the temperature setting will not be possible without intentionally unlocking.

- 1 From the "U03" display, press ✓ (T4).
- 2 Press - or + (T2 or T3) to switch to "on" and confirm your choice by pressing ✓ (T4).



Off	No child lock
On	Child lock active

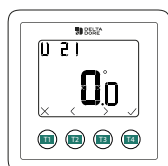
If the child lock is activated, the padlock symbol will appear on the screen when you wake up the display. To momentarily unlock (until next put into standby), simultaneously press and hold the T3 and T4 buttons for 5 seconds.

U21: Correcting the measured temperature

This menu allows you to correct a discrepancy between the temperature displayed by your thermostat and the temperature measured in the room (thermometer).

Example: if the temperature displayed by the thermostat is 19.3°C and the temperature measured is 20°C, set it to 0.7°C.

- 1 From the "U21" display, press √ (T4). The screen displays "0.0".
- 2 Press - or + (T2 or T3) to set the desired value (from -5°C to +5°C) and confirm your choice by briefly pressing √ (T4).

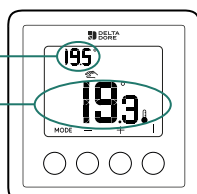


U31 - U32: Display settings

This menu allows you to determine the information you want to appear on the screen, in AUTO or Manual mode (👉).

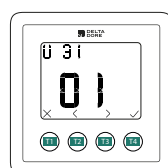
Line 2 (U32)

Line 1 (U31)



- 1 From the "U31" display, press √ (T4).

- 2 Press - or + (T2 or T3) to set the setting value and confirm your choice by pressing √ (T4).



	Line 1 (U31)	Line 2 (U32)
00	-	-
01	Room temperature measured	Room temperature measured
02	Set-point temperature	Set-point temperature
03	Humidity level	Humidity level

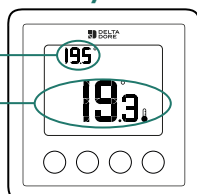
- 3 From the "U32" display, repeat the operations for line 2.

U33 - U34: Display settings in Standby mode

This menu allows you to determine the information that you want to appear on the screen, in Standby mode.

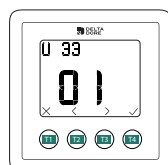
Line 2 (U34)

Line 1 (U33)



- 1 From the "U33" display, press √ (T4).

- 2 Press - or + (T2 or T3) to set the setting value and confirm your choice by pressing √ (T4).



	Line 1 (U33)	Line 2 (U34)
00	-	-
01	Room temperature measured	Room temperature measured
02	Humidity level	Humidity level

- 3 From the "U34" display, repeat the operations for line 2.

U35: Backlight activation

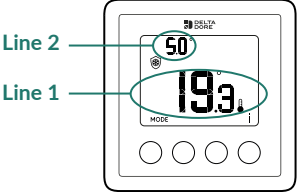
- 1 From the "U35" display, press √ (T4).
- 2 Press - or + (T2 or T3) to set the value of the setting and confirm your choice by pressing √ (T4).



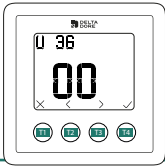
Off	Backlighting inactive
On	Backlighting active

U36: Display settings in Shutdown mode

This setting applies to the Shutdown mode accessible using the Mode button (T1).



- 1 From the "U36" display, press √ (T4).
- 2 Press - or + (T2 or T3) to set the setting value and confirm your choice by pressing √ (T4).



	Line 1	Line 2
00	-	-
01	Room temperature measured	-
02	Same display as that determined in settings U31 and U32.	

6. Logging into the Tydom app

To do this, you'll need a Tydom or Tywell smart home hub.

- 1 Turn on the smart home hub while connected to the Internet router via Ethernet.
- 2 Download the Tydom application



- 3 Associate your thermostat with the app.

From the Tydom application,
Select your home, then, from the Settings menu:
My homes -> My devices -> Add device -> Heating -> Electrical

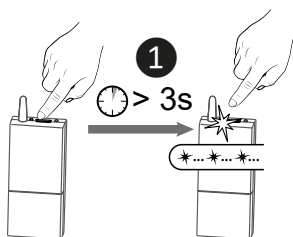
and choose the product to associate from the list, then follow the instructions.

- 4 Check on the thermostat that "AUTO" mode is then offered on the screen in the various mode choices.

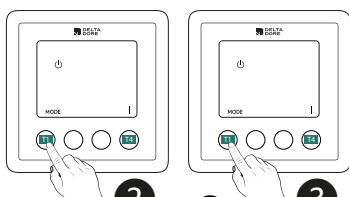
7. Associating a receiver or a repeater with a Tybox Control

In the case of a new pairing, or after a reset, or when adding an additional receiver or repeater, you must associate them.

- 1 Press the receiver/repeater button for 3 seconds until the red LED flashes. Release the button.

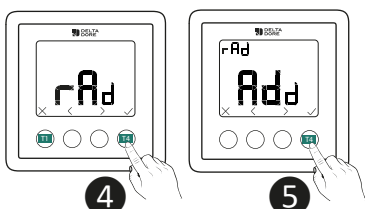


- 2 Repeatedly press MODE (T1) to switch to Shutdown mode (⏻ or ⚡).

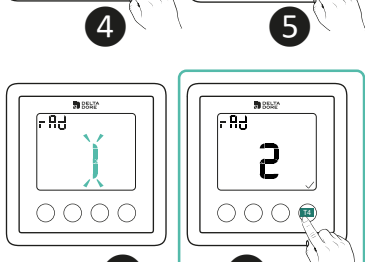


- 3 Press MODE (T1) for 5 seconds until rAd is displayed.

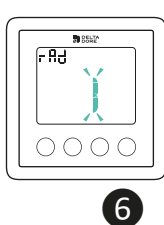
- 4 The screen displays rAd. Confirm with √ (T4).



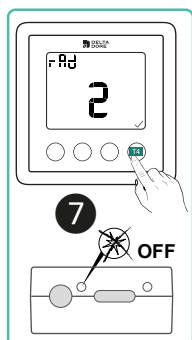
- 5 The screen displays Add. Confirm with √ (T4).



- 6 The flashing digit corresponds to the number of receivers/repeaters previously associated. The display flashes as long as the association between the thermostat and the receiver/repeater is not complete.



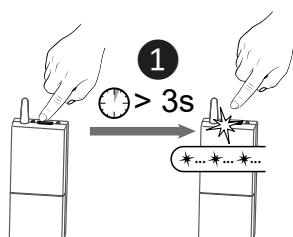
- 7 When the display stops flashing, it updates the number of paired receivers/repeaters. Confirm with √ (T4). The receiver/repeater LED stops flashing too.



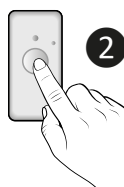
8. Associating a door/window magnetic contact

Associating a door/window magnetic contact, if the window is open, allows you to switch the heating to frost protection (within 10 seconds).

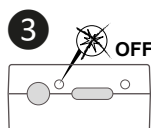
- 1 Press and hold the receiver button for three seconds until the light flashes red.



- 2 Briefly press the detector button.



- 3 Make sure that the receiver LED has stopped flashing.



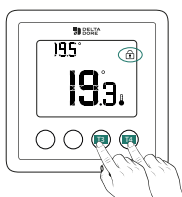
In the case of pairing with a door/window magnetic contact, the i41 setting automatically sets to "on".

9. Troubleshooting

9.1 Child lock

A padlock appears on the screen when you wake up the display.
No button is active.
This means that the child lock is activated.

To temporarily unlock this safety device (until the next time the thermostat is switched to standby), press and hold buttons T3 and T4 simultaneously for 5 seconds. This grants access to all the settings offered by your product.



9.2 Possible errors

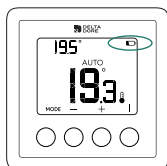
An error in the installation will be indicated by the  symbol.
Press the i button (t4) to find out what type of error is involved.

The screen displays	Diagnostics / Solution
00	No receiver has been associated to the thermostat <i>Associate the receiver with the thermostat</i>
01	Thermostat sensor error <i>The product must be returned to the after-sales department.</i>
09 ^(*)	There has been a temporary wireless communication error between the receiver and the thermostat. <i>The error display disappears once it has been viewed.</i>
13 ^(*)	There has been no wireless communication between the receiver and the thermostat for more than an hour. Check that the products are correctly positioned using wireless diagnostics (see "Wireless diagnostics", page 16).
23	Humidity sensor error <i>The product must be returned to the after-sales department.</i>
25	You are controlling several receivers that are not in the same operating mode (Auto, Manual, Absence, Off). <i>When the error is viewed, the unit returns to manual mode and the error is cleared.</i>

(*) The  symbol appears.

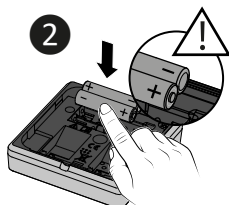
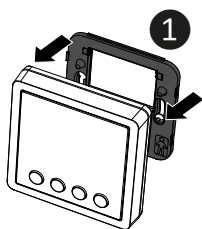
9.3 Low battery warning / Changing the batteries

When the  symbol appears, you have one month to replace the batteries.



To change the batteries:

- 1 Remove the room thermostat from its stand or mount.
- 2 Replace the batteries, making sure that they are facing the right way and that they are the right type (2x 1.5V LR03 or AAA batteries, no Lithium or rechargeable batteries).



9.4 Temperature setting limitation

You are unable to set the desired set-point temperatures.
The setting ranges were limited during installation (menus i21, i22).

9.5 Wireless diagnostics

This menu is used to measure the wireless quality between the Tybox Control and its receiver. This makes it possible to define the best possible location for products if there is any doubt concerning wireless transmission. If the indicated value is too low, move the thermostat closer to the receiver or add a wireless repeater (ERX1000/ERX2000) to your setup.

- 1 Repeatedly press MODE (T1) to switch to Shutdown mode ( or ).
- 2 Press and hold MODE (T1) until rAd is displayed.
- 3 Press < or > (T2 or T3) to display diA. Confirm with ✓ (T4).
- 4 The display shows the wireless transmission quality in %.

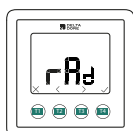
< 30 %	Too low
From 30 to 60%	Correct
> 60%	Excellent



9.6 Deleting wireless associations

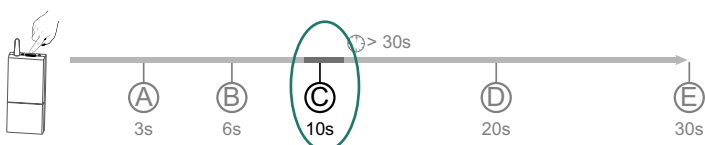
This menu is used to delete the Tybox Control's wireless association with the installation's receiver(s) or repeater(s).
This menu does not allow you to delete a smart home hub (performed from the application) or door/window magnetic contact (performed from the receiver).

- 1 Repeatedly press MODE (T1) to switch to Shutdown mode ( or ).
- 2 Press MODE (t1) for 5 seconds until rAd is displayed.
Confirm with ✓ (T4).
- 3 The screen displays Add. Press < or > (T2 or T3) to display dEL. Confirm with ✓ (T4).
- 4 Confirm with Yes or No using the - or + buttons (T2 or T3).
Confirm with ✓ (T4).



Deleting the association of a door/window magnetic contact:

Deleting the association of a door/window magnetic contact is performed via the receiver, by pressing and holding the button. The light will go through different states. Release when the red light flashes quickly (after 10 seconds)



(A) : The LED flashes red. The receiver is in association mode.

(B) : The red LED is on and steady. The receiver is in "LED switch off" mode (see user instructions).

(C) : **The red LED flashes rapidly. The receiver is waiting to delete the association with a door/window magnetic contact (check on the device you want to remove).**

(D) : The red LED turns off. All associations with the receiver are now deleted.

(E) : If you press and hold for up to 30 seconds, the LED flashes quickly for 2 seconds. The receiver is fully reset (returned to factory settings).

Delete the association from the Tydom application

From the Tydom application,

Select your home, then, from the Settings menu:

My homes -> My devices -> Select the device to be deleted -> Advanced options -> Delete

9.7 Settings reset

It is possible to restore factory settings.

ini i: Reset the installation configuration

ini u: Reset the user configuration

ini F: Total reset, including wireless associations.

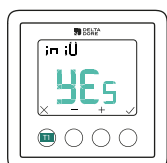
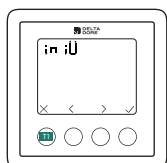
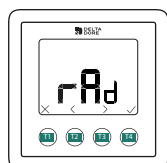
① Repeatedly press MODE (T1) to switch to Shutdown mode ( or ).

② Press and hold MODE (T1) until rAd is displayed.

③ Press < or > (T2 or T3) to display ini. Confirm with ✓ (T4).

④ The display shows "iniU". Press < or > (T2 or T3) to choose the configuration to be reset (ini U, ini i or ini F). Confirm with ✓ (T4).

⑤ Confirm with Yes using the - or + buttons (T2 or T3). Confirm with ✓ (T4).



9.8 Lost access code

Contact our technical support

9.9 Technical specifications

Tybox Control / Tybox Control XL

- Power supply using 2 batteries:
2x1.5V Alkaline - Type LR03-AAA, battery life 2 years^(*)
- Class III insulation
- Frequency range used: 868.7 MHz to 869.2 MHz
- Maximum wireless power 10 mW
- Wireless range of up to max. 300 metres outside, varies depending on the associated equipment (the range can vary depending on the installation conditions and the electromagnetic environment).
- Wall-mounted or on a stand
- Tybox Control square version dimensions: 92 x 92 x 21 mm
- Tybox Control XL version dimensions: 122 x 92 x 21 mm
- Protection Class: IP 30
- Installation in an environment with normal pollution levels
- Storage temperature: -10°C / +70°C
- Operating temperature: 0°C / +55°C

(*) Battery life 2 years based on the following usage scenario:

- 5 actions per day on the thermostat,
- 25 actions per year on the thermostat settings,

RF 7130 Receiver

- Power supply 230 V~ +/-10%, 50 Hz, consumption: 1.3W
- Class II insulation
- Powered contact output 16A, 230V~, Cos φ =1
- Cable diameter 7 mm +/- 0.4 mm -
- • X3D transmission frequency: 868.7 MHz to 869.2 MHz
- Maximum wireless power 10 mW
- Wireless range of 300 metres outside, varies depending on the paired equipment (the range can vary depending on the installation conditions and the electromagnetic environment).
- Dimensions: 54 x 141 x 25 mm
- Protection rating: IP 44, with vertical positioning of the product
- Storage temperature: -10°C / +70°C
- Operating temperature: -10°C / +40°C,
- Rated impulse withstand voltage: 2500 V