



United Kingdom

Part 2 of 2



Smart Thermostat

Low Voltage Digital Installations

Guide for Professional Installers

If you are not a professional installer and want to install tado° yourself, get step-by-step instructions at tado.com/start



POLARITY-PROTECTED WIRING

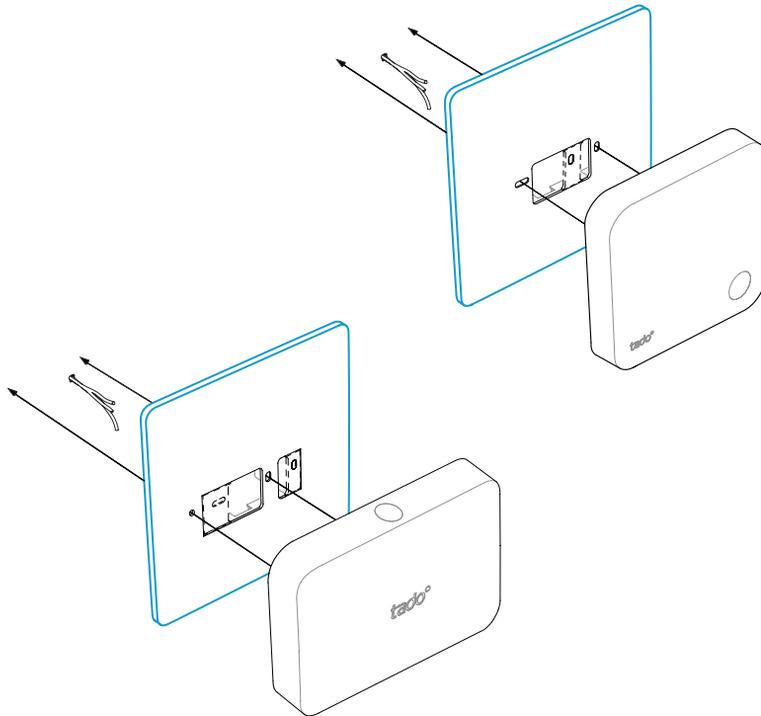
For all two-wire digital installations the wires connected to + and - on tado° can be interchanged



CAUTION

Make sure to turn the power off before you start

Optional Accessory



Use the **tado° Trim Plate** behind the Smart Thermostat or Extension Kit if needed. This can be obtained separately at tado.com/trim-plate

1. Wiring: OpenTherm

Wired Setup:

Smart Thermostat is wired directly to the boiler



Smart Thermostat

Wireless Setup:

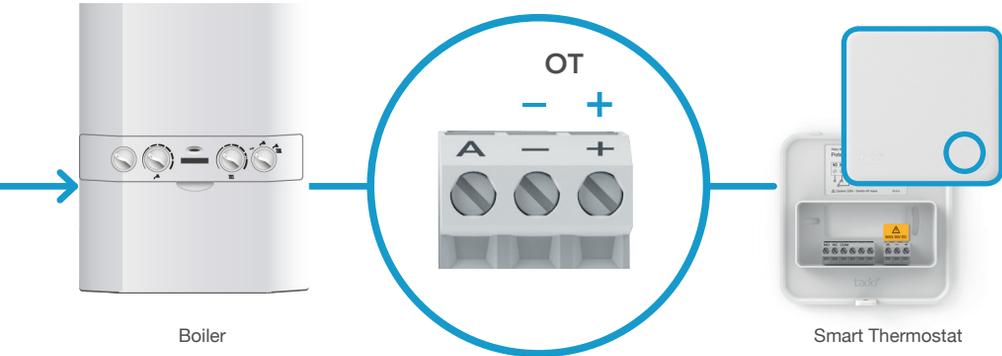
Smart Thermostat installed wirelessly with receiver



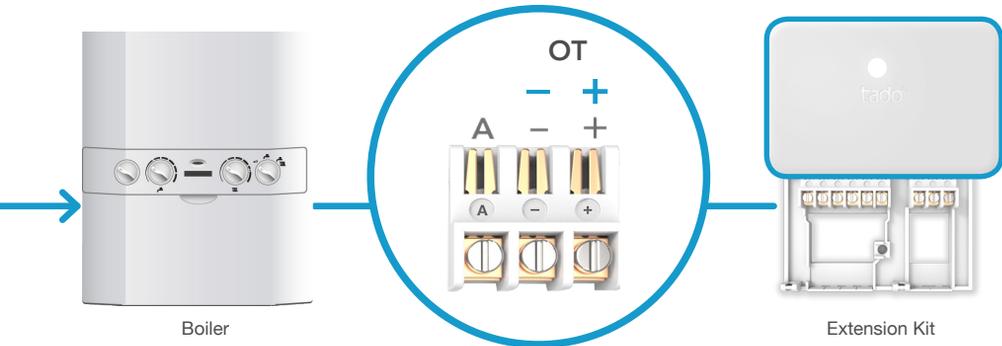
Smart Thermostat

&

Extension Kit

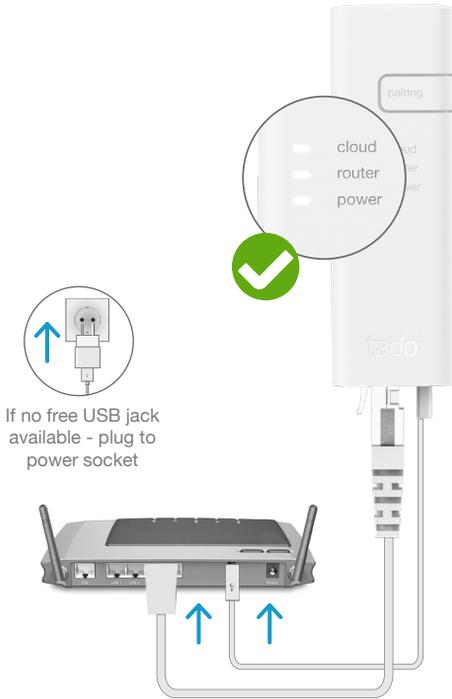


MAX 36 V DC

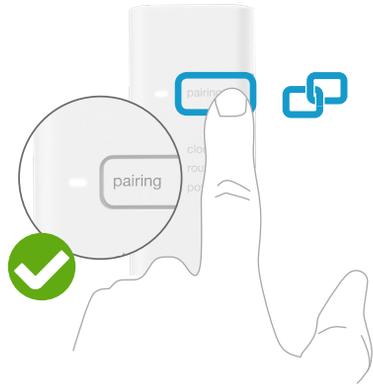


The Extension Kit requires a separate 230 V power supply at N and L for OpenTherm installations

2. Connect Internet Bridge to Router



Connect Internet Bridge to router

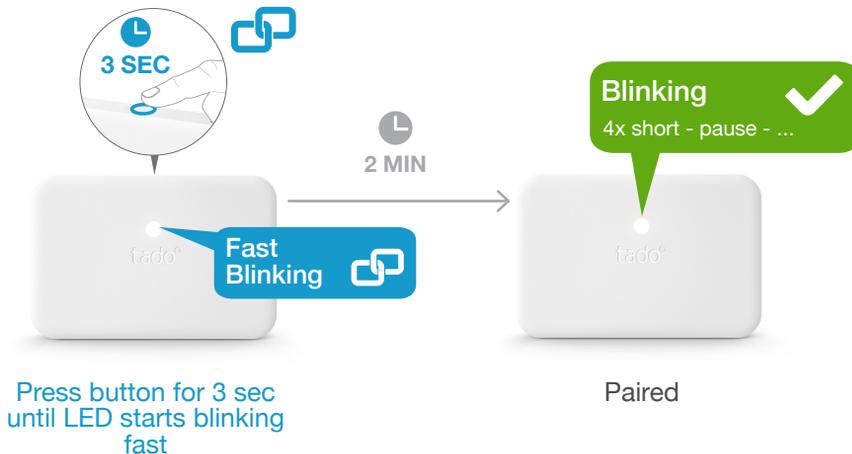


Press pairing button until the LED blinks to activate pairing mode

Pairing allows other devices to connect to the Internet Bridge

3. Pair Extension Kit with Internet Bridge

Wireless Setup: Smart Thermostat installed wirelessly with receiver



Blinking

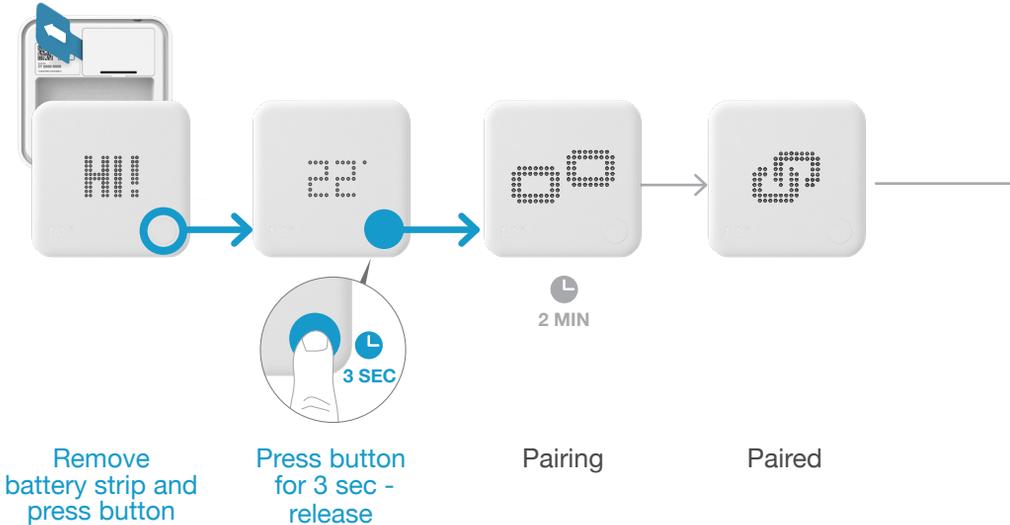


2x short - pause - ...

If failed:

Restart pairing and make sure that the distance between the devices is at least 3 m while pairing

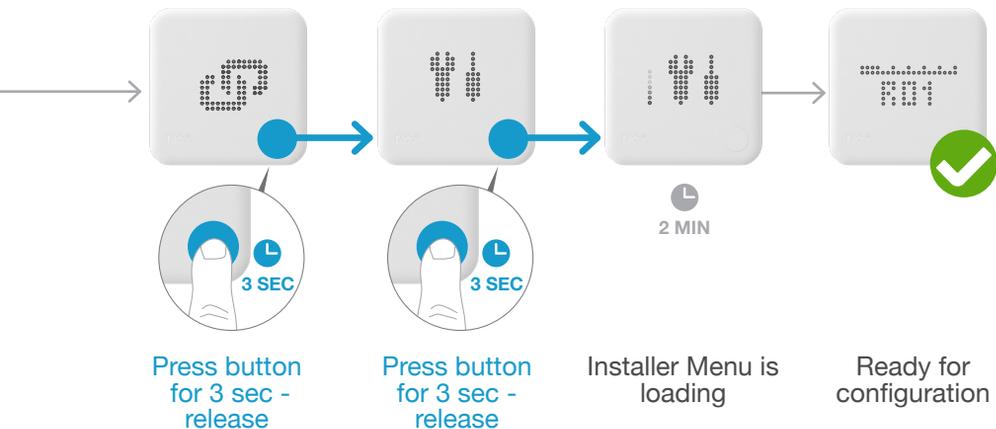
4. Pair Smart Thermostat with Internet Bridge



If failed:

- Press the button to clear the error
- Restart pairing and make sure that the distance between the devices is at least 3 m while pairing

Open Installer Menu



If failed:

- Repeat the process to open Installer Menu
- Make sure that the distance between the devices is at least 3 m while loading the menu

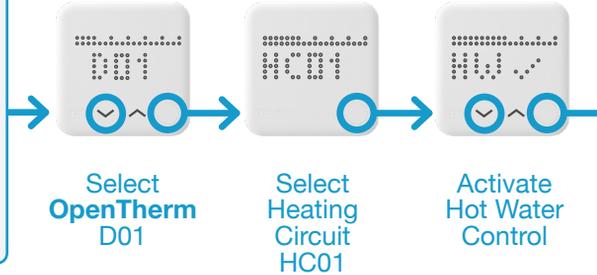
5. Configuration: OpenTherm

Wired Setup:

Smart Thermostat is wired directly to the boiler



Smart Thermostat

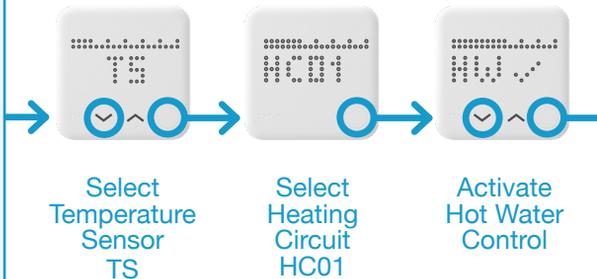


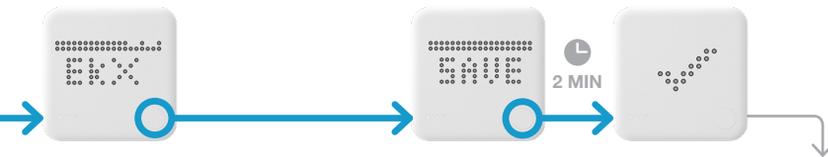
Wireless Setup:

Smart Thermostat installed wirelessly with receiver



Smart Thermostat & Extension Kit

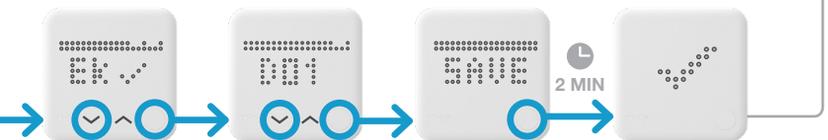




No
Extension Kit


**OpenTherm
installation complete**

1. Test the system
2. Hand over the registration card to the customer



Extension Kit
Present

Select
**OpenTherm
D01**


Configuration download active
after saving Installer Menu
(up to 2 min)

1. Wiring: Vaillant eBus

Wired Setup:

Smart Thermostat is wired directly to the boiler



Smart Thermostat

Wireless Setup:

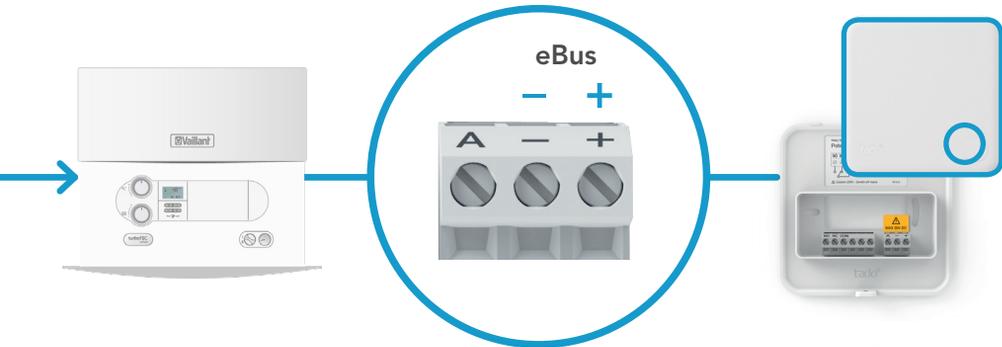
Smart Thermostat installed wirelessly with receiver



Smart Thermostat

&

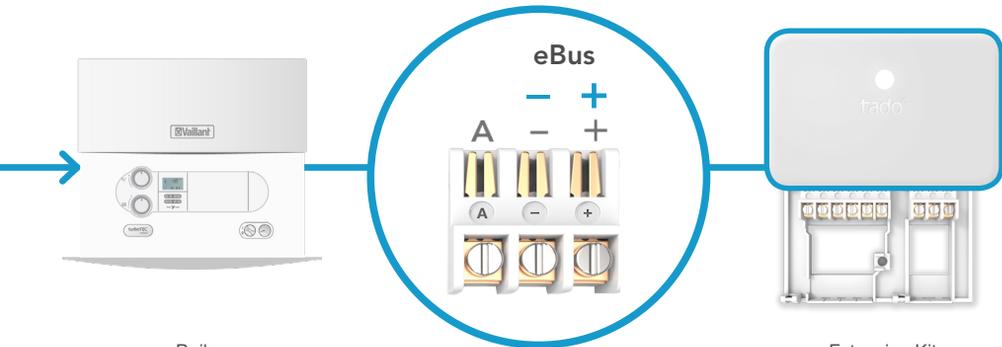
Extension Kit



Boiler

Smart Thermostat

MAX 36 V DC



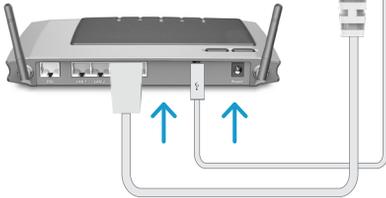
Boiler

Extension Kit

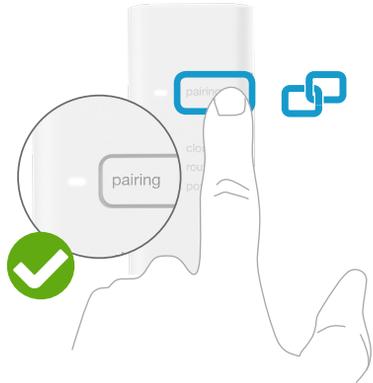
2. Connect Internet Bridge to Router



If no free USB jack available - plug to power socket



Connect Internet Bridge to router

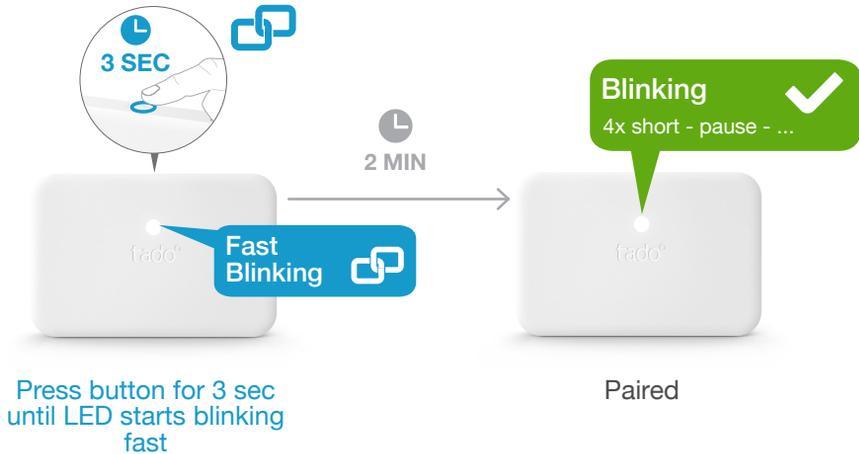


Press pairing button until the LED blinks to activate pairing mode

Pairing allows other devices to connect to the Internet Bridge

3. Pair Extension Kit with Internet Bridge

Wireless Setup: Smart Thermostat installed wirelessly with receiver

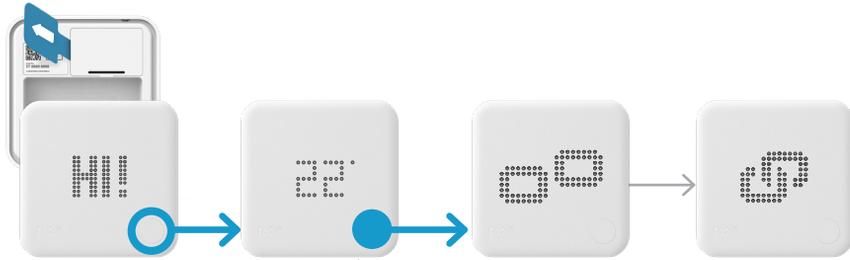


Blinking 
2x short - pause - ...

If failed:

Restart pairing and make sure that the distance between the devices is at least 3 m while pairing

4. Pair Smart Thermostat with Internet Bridge



Remove
battery strip and
press button

Press button
for 3 sec -
release

Pairing

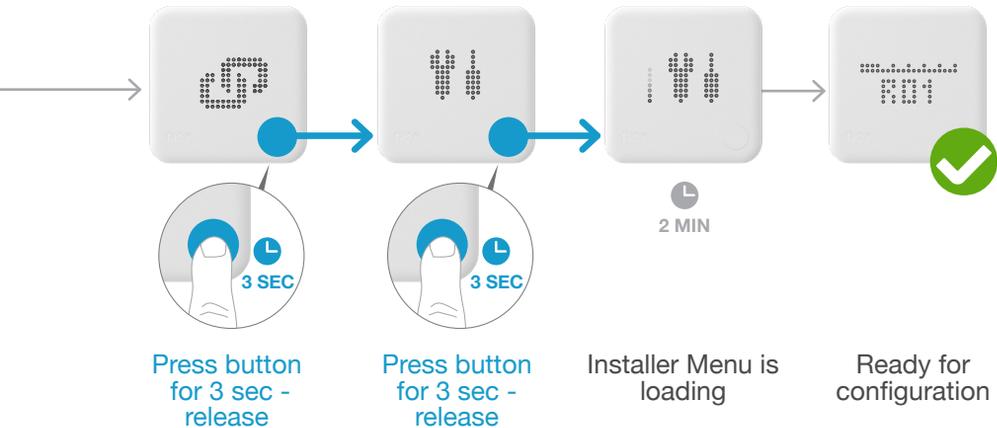
Paired



If failed:

- Press the button to clear the error
- Restart pairing and make sure that the distance between the devices is at least 3 m while pairing

Open Installer Menu



If failed:

- Repeat the process to open Installer Menu
- Make sure that the distance between the devices is at least 3 m while loading the menu

5. Configuration: Vaillant eBus

Wired Setup:

Smart Thermostat is wired directly to the boiler



Smart Thermostat



Select eBus
D05 or D07



Select
Heating
Circuit
HC01 or
HC02



Activate
Hot Water
Control (only
for D07)

D05 for systems with a calorMATIC VRC430/470 (VR81)

D07 Standard Vaillant eBus

Wireless Setup:

Smart Thermostat installed wirelessly with receiver



Smart Thermostat



& Extension Kit



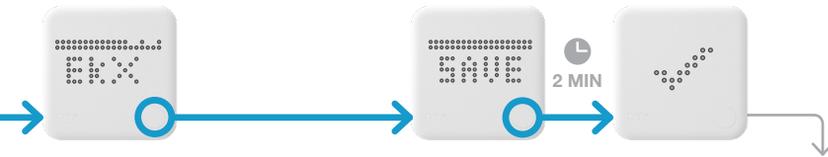
Select
Temperature
Sensor
TS



Select
Heating
Circuit
HC01 or
HC02



Activate
Hot Water
Control (only
for D07)

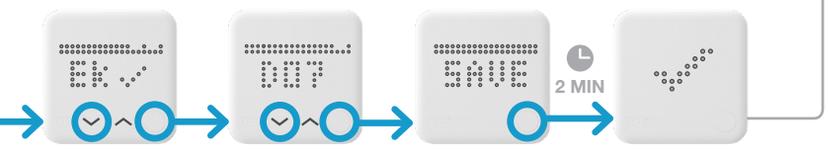


No
Extension Kit



**Vaillant eBus
installation complete**

1. Test the system
2. Hand over the registration card to the customer



Extension Kit
Present

Select eBus
D05 or D07



Configuration download active
after saving Installer Menu
(up to 2 min)

1. Wiring: Viessmann KM-Bus

Wired Setup:

Smart Thermostat is wired directly to the boiler



Smart Thermostat

Wireless Setup:

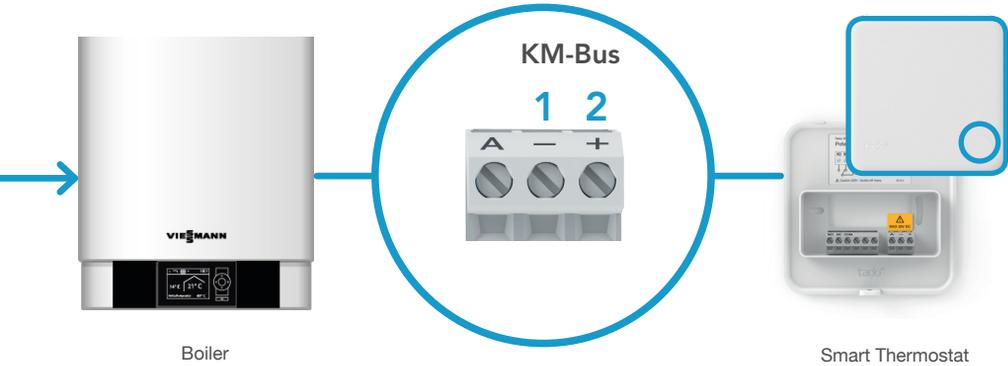
Smart Thermostat installed wirelessly with receiver



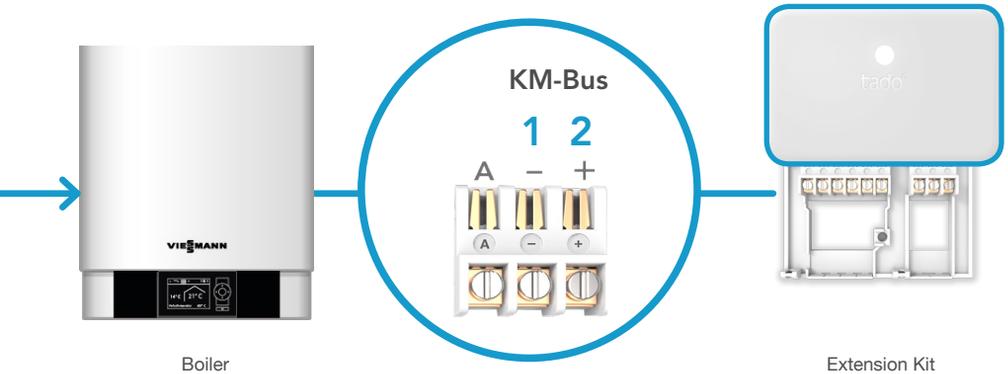
Smart Thermostat

&

Extension Kit



MAX 36 V DC



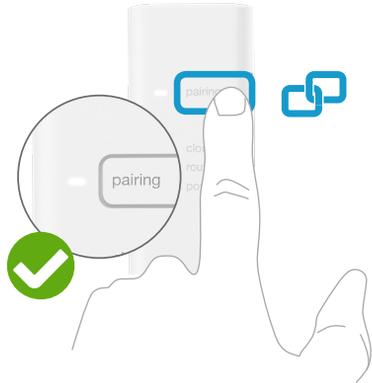
Viessmann
KM-Bus

2. Connect Internet Bridge to Router



If no free USB jack available - plug to power socket

Connect Internet Bridge to router

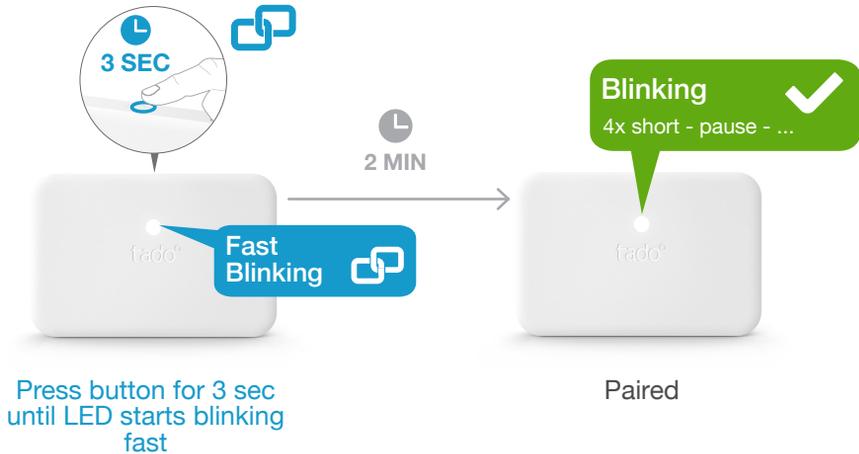


Press pairing button until the LED blinks to activate pairing mode

Pairing allows other devices to connect to the Internet Bridge

3. Pair Extension Kit with Internet Bridge

Wireless Setup: Smart Thermostat installed wirelessly with receiver

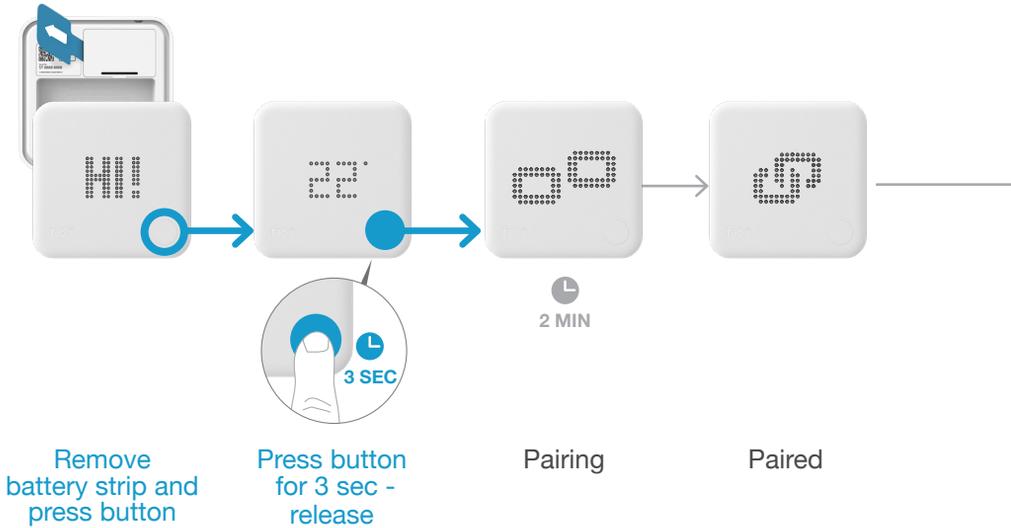


Blinking ✘
2x short - pause - ...

If failed:

Restart pairing and make sure that the distance between the devices is at least 3 m while pairing

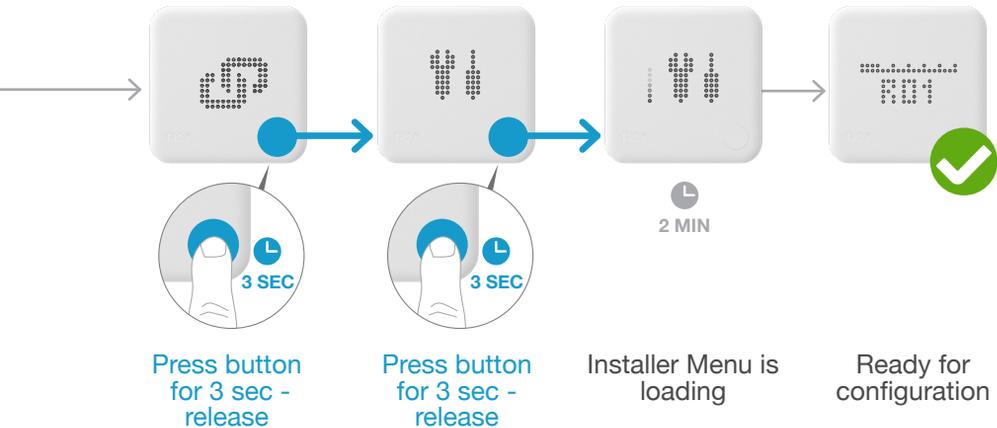
4. Pair Smart Thermostat with Internet Bridge



If failed:

- Press the button to clear the error
- Restart pairing and make sure that the distance between the devices is at least 3 m while pairing

Open Installer Menu



If failed:

- Repeat the process to open Installer Menu
- Make sure that the distance between the devices is at least 3 m while loading the menu

5.Configuration: Viessmann KM-Bus

Wired Setup:

Smart Thermostat is wired directly to the boiler



Smart Thermostat



Select
KM-Bus
D37



Select
Heating
Circuit
HC01 or
HC02



No
Hot Water
Control

Wireless Setup:

Smart Thermostat installed wirelessly with receiver



Smart Thermostat & Extension Kit



Select
Temperature
Sensor
TS



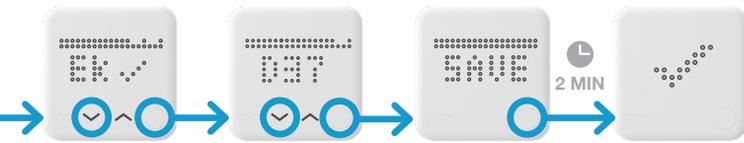
Select
Heating
Circuit
HC01 or
HC02



No
Hot Water
Control



No
Extension Kit



Extension Kit
Present

Select
KM-Bus
D37


 Configuration download active
 after saving Installer Menu
 (up to 2 min)

6. Heating System Settings

For the heating circuit controlled by tado°, set the same settings as for a Viessmann Vitotrol 200 remote control.

Controller	Heating System Settings	
Vitotronic 200 GW..	90: Time constant for calculating the adjusted outside temperature	12
	A0: Remote Control	1 (If 1 can not be selected, use 2)
Vitotronic 300 GW.. Vitotronic 200 HO..	b0: Room Temperature Hook-up	3
Vitotronic 200 KW.. Vitotronic 300 KW..	b2: Room Influence Factor	64 (If 64 can not be selected, use 31)
Vitotronic 200 KO..	b5: Heating Circuit Pump Logic	5 (If 5 can not be selected, use 1)
	FA: Increase of the set flow temperature	0



Viessmann KM-Bus installation complete

1. Test the system
2. Hand over the registration card to the customer

1. Wiring: Worcester **HT-Bus**

Wired Setup:

Smart Thermostat is wired directly to the boiler



Smart Thermostat

Wireless Setup:

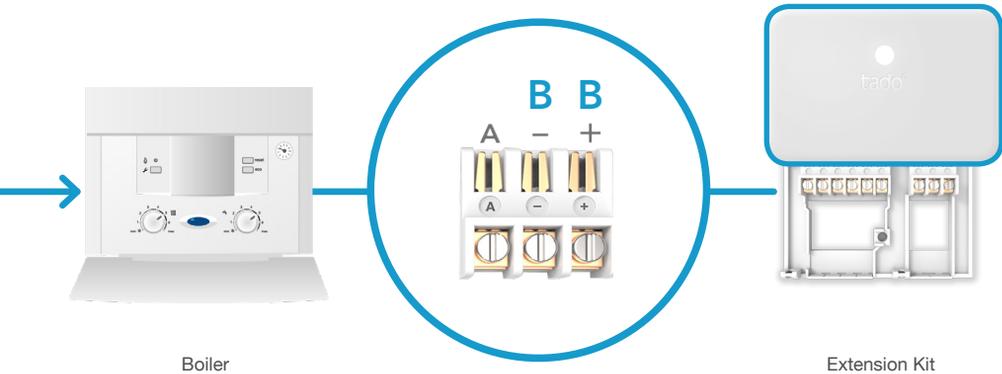
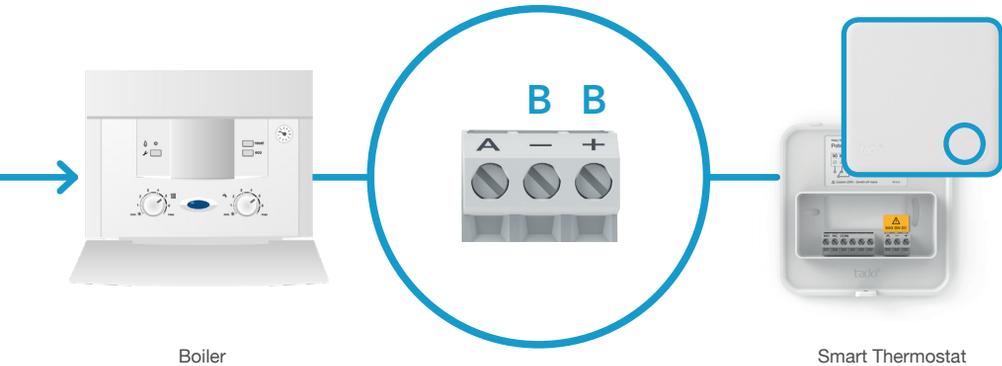
Smart Thermostat installed wirelessly with receiver



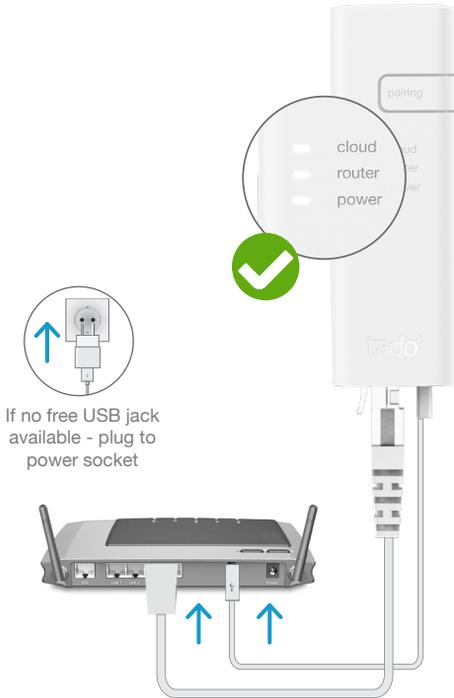
Smart Thermostat

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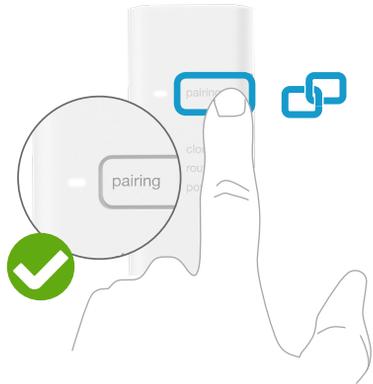
Extension Kit



2. Connect Internet Bridge to Router



Connect Internet Bridge to router

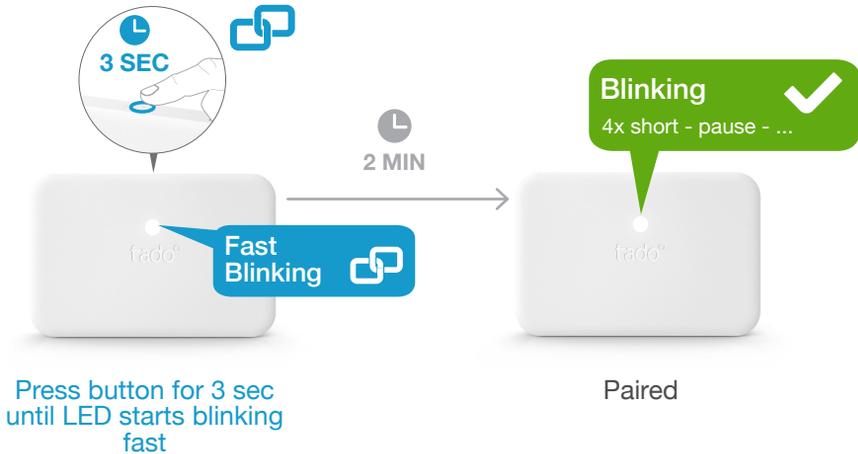


Press pairing button until the LED blinks to activate pairing mode

Pairing allows other devices to connect to the Internet Bridge

3. Pair Extension Kit with Internet Bridge

Wireless Setup: Smart Thermostat installed wirelessly with receiver

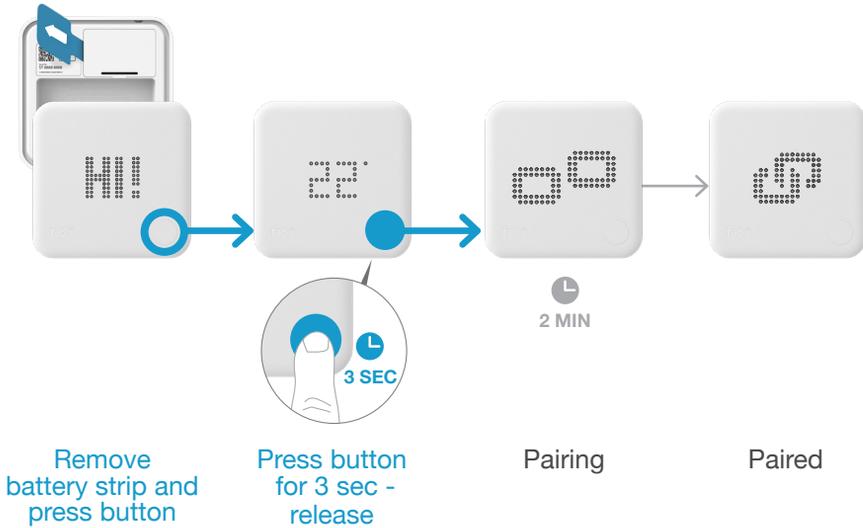


Blinking ✘
2x short - pause - ...

If failed:

Restart pairing and make sure that the distance between the devices is at least 3 m while pairing

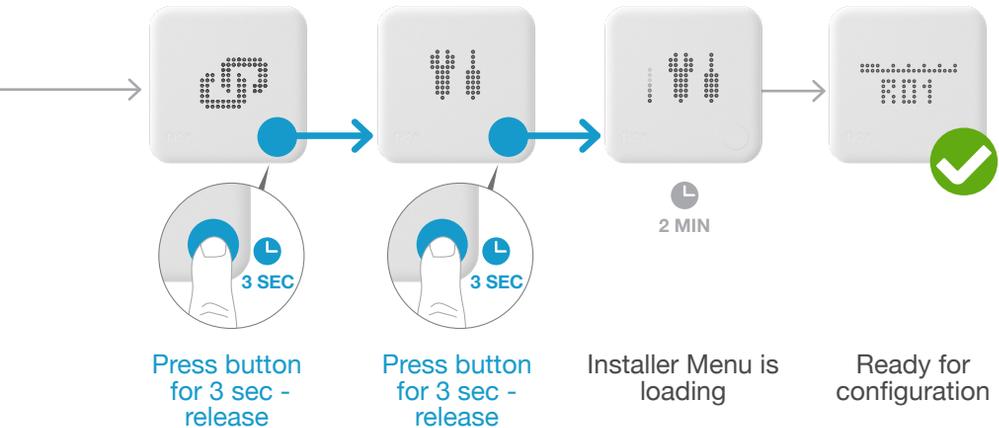
4. Pair Smart Thermostat with Internet Bridge



If failed:

- Press the button to clear the error
- Restart pairing and make sure that the distance between the devices is at least 3 m while pairing

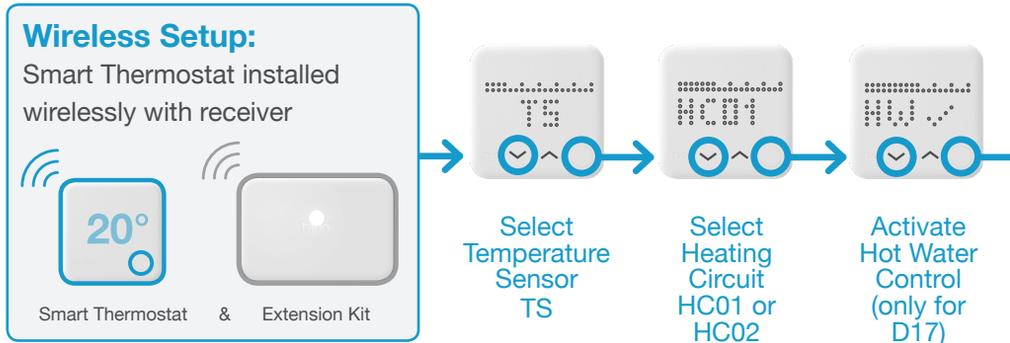
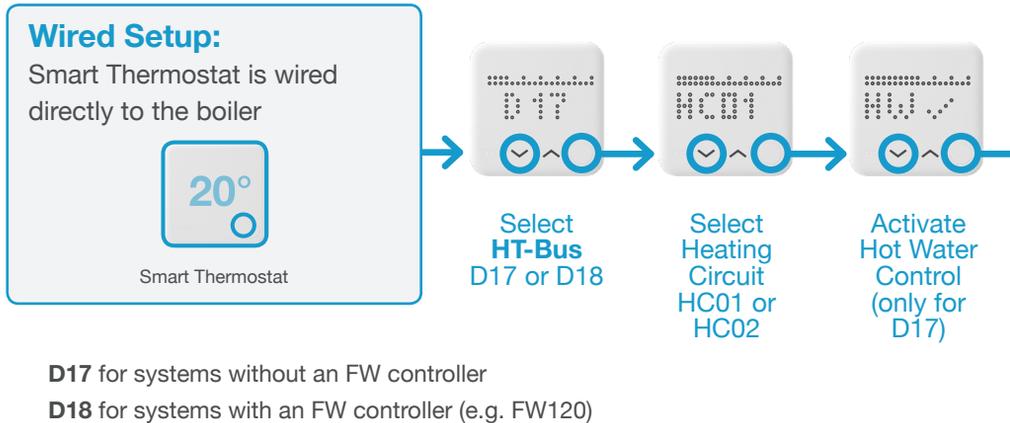
Open Installer Menu



If failed:

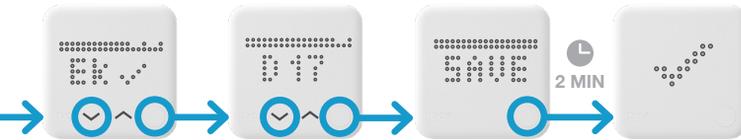
- Repeat the process to open Installer Menu
- Make sure that the distance between the devices is at least 3 m while loading the menu

5. Wiring: Worcester **HT-Bus**





No
Extension Kit



Extension Kit
Present

Select
HT-Bus
D17 or D18



Configuration download active
after saving Installer Menu
(up to 2 min)

6. Heating System Settings

For the heating circuit controlled by tado°, set the same settings as for a Worcester remote control.

Controllers		Heating System Settings	
FW 100 FW 120 FW 200 FW 500	Remote Control (heating circuit __)		FB10
	Room influence		50%
	Room influence enabled for levels		Comfort-Eco-Frost
	Sensor used for room influence		Sensor on FB10 (only when the FW controller is installed externally)
	Mode selector (switch below the display)		Auto (FW100: clock symbol)



Worcester HT-Bus installation complete

1. Test the system
2. Hand over the registration card to the customer



Get expert advice on the
tado° installer hotline:

 **020 3893 2159**

or at
tado.com/installers

