



Smart homes, better living

heating

GUIDE

hydraulic





We've been around for 50 years with 50 years of research and 50 years of European design and manufacture, but maybe we haven't met yet?

Through this booklet we'd like to share our expertise. Our aim is to help you deliver the right temperature at the right time in each home, whilst also enabling you to give customers simple smart home solutions. We do this by providing easy to install products and services, tailor-made with an intuitive user experience for both you and your customers...

Here's a few ways that we hope our paths will meet

Overview of smart heating

Delta Dore by your side [p.4](#)

Your home at your fingertips with Tydom [p.6](#)

Opening [p.8](#)

Hydraulic heating by Delta Dore [p.10](#)

Application cases [p. 12](#)

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01

Energy savings

You can really optimise your energy consumption through high performance and well-thought-out products

02

Home renovation

Nothing could be simpler with our highly compatible wireless solutions

03

Collective housing

Our solutions are easily upgradeable and intuitive; they're a great option for the rental market



04

Single-family home

Let's make things easier for your customers to use on a daily basis for extra living comfort

Our training staff are specialist technicians, renowned in home automation, security, heating and multimedia. Their heating and electrical experience make them the ideal contact for you. They will understand your needs (electrical norms, heating regulations, labeling, technologies...)

They will therefore be able to help you work with peace of mind, in accordance with industry and safety regulations. Please contact 020 7660 2919 or visit the Pro Zone for support, information and training - www.deltadore.co.uk/prozone



Our 10 commitments

05

Multi-energy solutions

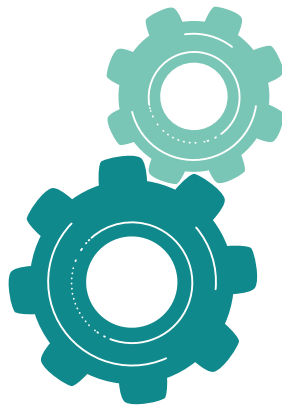
Our products are compatible with boilers, heat-pumps, pellet stoves, electric heating and water tanks



06

Installation made easier

We use radio technology, mainly for how easy it is to implement without wiring



08

Scalability

Everything is designed so our products communicate with each other, allowing your customer to enhance their homes gradually according to their needs

07

Voice control

The heating system can also be remotely voice-controlled with Google Home and Amazon Alexa. This is also the case for other solutions that we offer



09

Simplified use

Intuitive use, neat design, clear graphics that make it easier to use



10

The smart home

At Delta Dore we say technology is only useful if it makes sense, our products balance comfort and energy costs in the home on a daily basis



Discover all of the latest exclusive news relating to our smart home solutions, **videos and tutorials**, news from our partner bloggers, our new services, and also the dates of our next trade shows, our partnerships...

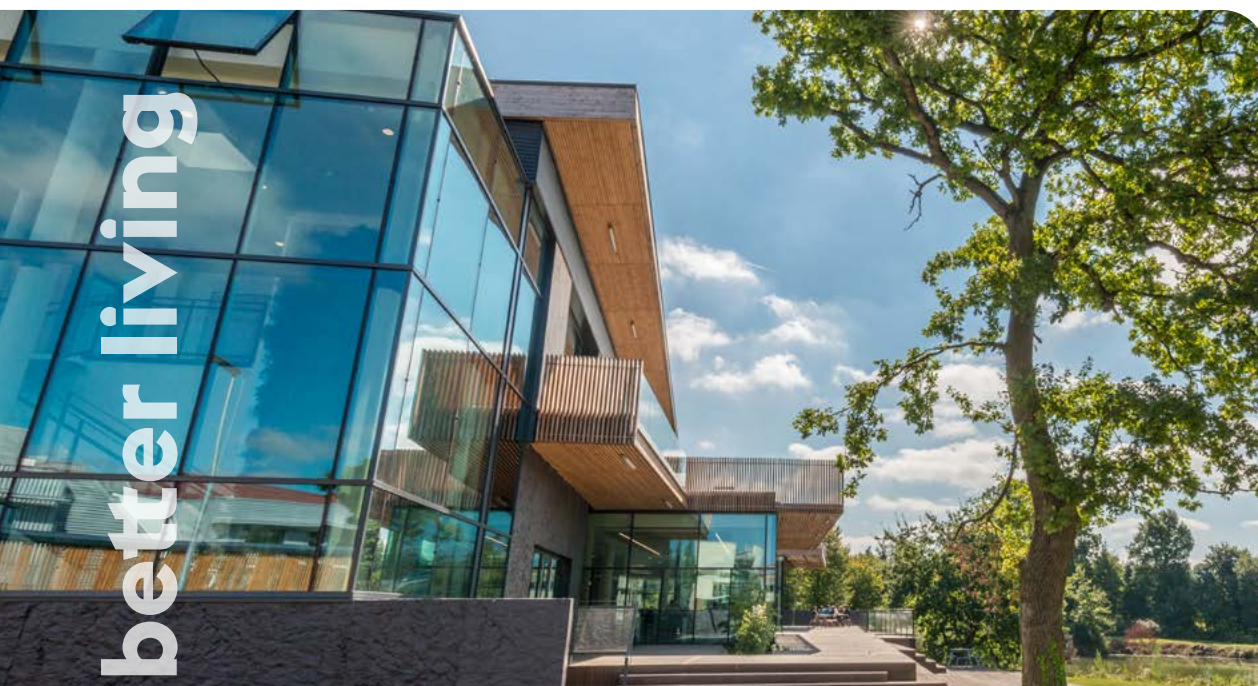


Follow us on the social networks!

Delta Dore **by your side**

Our legitimacy and support at your side has been built upon year after year. Always attentive to your needs and your customers' expectations, our credo of imagining how we could increase your home's comfort through energy saving has never changed.

*Keeping one step ahead
to provide you with the best.*



smart homes better living

Founded in **1970**

810 employees

more than **5 million** products manufactured per year

3 manufacturing sites: 2 in France and 1 in Germany

40 partner countries

6 subsidiaries in Europe and Asia

9% of turnover devoted to research

more than **70 patents**

1976

Six years after its creation, Delta Dore invented

the first load shedder.

This product, unprecedented at the time, controls the house's electrical consumption to avoid the energy supply cutting off altogether.



1981

The world was already concerned at this time about energy saving, Delta Dore invented **the first Tybox programmable thermostat** for hot water heating.



1989

The first solution for smart homes!

Delta Dore launched its first telephone remote control which enabled you to remotely manage your heating.

We've always been famous for being one step ahead.



2000

Delta Dore entered the **security market** with the release of its first range of Tyxal alarm systems.



2004

With the overarching desire to make home applications interactive, Delta Dore added another string to its bow by creating products that were

automatically controlled such as

lighting, opening doors and windows, roller blinds, etc.



2013

Launch of the **Tydom smart home hub**
Connected to the user's internet router, it enables you to control all home applications from your smartphone, wherever you are.



2019

Since that date, heating and smart homes have also been controlled

by voice with voice assistants.

Join us for the next chapter —

SMART HOME



Tydom, a simple and intuitive app for smart homes



The Tydom application is free, secure and does not require a subscription.

Tydom: Home at your fingertips

User-friendly for everyone, Tydom helps you control your heating, lighting, shutters, entrance gate, garage door or alarm, at home or remotely. The application can be customised using the photo mode to control each solution by clicking on the corresponding images.

Functions include:

- Adjusting the temperature in the home
- Turning lights on and off (compatibility with bulbs and connected sockets using the Zigbee protocol)
- Opening and closing roller shutters, awnings and garage doors
- Activating and deactivating the alarm
- Being alerted if anything has been detected
- Monitoring the home via indoor and outdoor video cameras
- Programming everyday actions
- Using scenarios to simplify daily events
- Monitoring energy use in the home



Your voice-controlled house

All our products are compatible with Amazon Alexa and Google Assistant.



OPENNESS, for evolutionary smart homes



OPENNESS, BY MEANS OF VOICE ASSISTANTS

Deliver an intuitive smart home experience: Delta Dore's services are compatible with Amazon Alexa & Google Assistant

Works with **Delta Dore**

The largest names in home living trust us and are compatible with our solutions



OPENNESS TO OTHER BRANDS

Complete your Delta Dore installation with other products, while sticking with just a single application:

- thanks to the openness of our APIs (Application Programming Interfaces) towards other smart home players
- thanks to our openness towards market protocols (Zigbee compatibility)



For professionals: enhance your customers' installations, without brand interoperability constraints.

For private individuals: easily upscale your smart installation, and maintain an optimal user experience with a unique interface.



Thermostat

It measures the temperature and turns the heating device on or off according to the requested temperature.

Programmable thermostat

In addition to the thermostat function, it enables you to programme in the required temperature reductions at certain times of the day, for example when your home is unoccupied or at night.

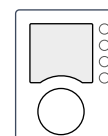
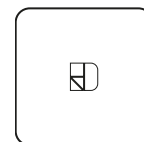
Smart Home Hub

The smart home hub is so much more than just heating control. Enhance your home by adding in lighting, blinds, security, etc. for a full Delta Dore smart home experience.

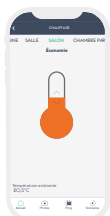
Programmer

Control heating by setting the temperature for each room whilst having the overall time control of a centralised programmer.

Optimise your energy consumption without sacrificing comfort



HEATING



Programming/automation

Personalised according to individual lifestyles, the programming automatically lowers the set temperature of one or more areas of the home, during periods of sleep and absence, for each day of the week. Regulation through control helps lower heating use.



Optimisation

This function triggers the ideal temperature based on the programmed time. It is built-in with certain products and is a really comfortable extra.

Chrono-proportional control

It regularly calculates how long the heating is on and off for, in proportion to the difference between the measured temperature and the set temperature of the thermostat. This means you get the desired temperature swiftly, with great precision and no sudden variations.

DHW (Domestic Hot Water)

Control the hot water so that your customer does not waste energy by heating their tank needlessly. Programme the times to have hot water precisely when needed.

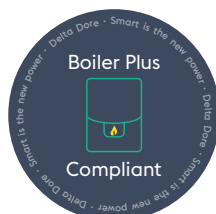


Night time overventilation

A helpful feature in summer that cools your home at night. When the outside temperature is lower than your home's temperature, the energy manager turns on the VMC, accelerating the air circulation to replace it.

Door/window magnetic contact and heating control

As soon as an equipped window is opened, the heating switches automatically to frost protection mode until the window is closed again. The temperature then returns to its previously selected level.



Hot water heating by Delta Dore



hydraulic

USE CASE

heating

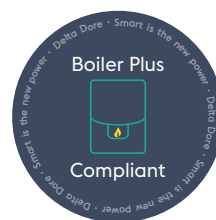
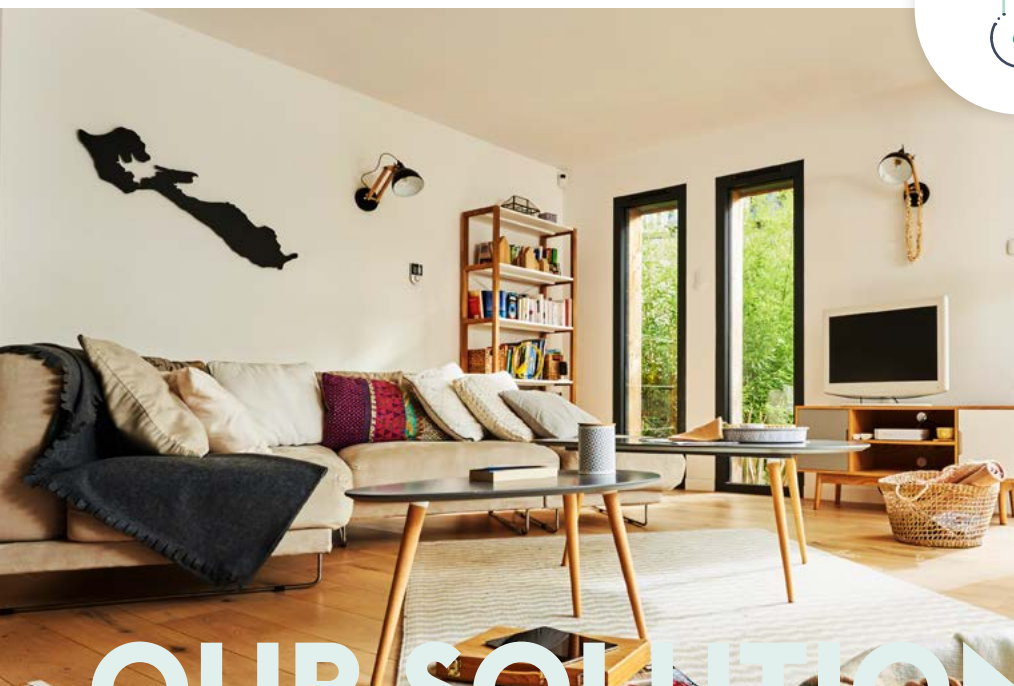
p.14 Controls for Boilers & Heat Pumps (Air/Water)

p.16 Control packs for boilers & Heat Pumps (Air/Water)

p.18 Controls for Underfloor heating

p.20 Control for Ducted systems & Heat Pumps (Air/Air)

Controls for Boilers & Heat Pumps (Air/Water)



OUR SOLUTION

The installation of any combi boiler is complemented perfectly with our range of single zone solutions, ensuring that your replacement or new installation is affordable, simple & stylish. All our offers work as non connected, but become smart simply by adding Tydom.

Simplified installation, easy to use

- Temperature sensor calibration
- 2 locking levels: button lock or setpoint adjustment limitation

Remote controlled Tybox contents:

- Room thermostat unit power supply with batteries included
- 230 V receiver supply



The advantages of a smart home

Heating control via the Tydom application on a smartphone or tablet
Scalable solution for controlling other points in the home depending on the system including the alarm, lighting, roller shutters, garage door, or gate

Installation for non connected & smart homes

Wireless thermostats



Tybox 2300 - Ref 6O53O8I
Compatible with Tydom smart home hub

Room thermostat with room temperature display
Control of boiler, wood stove, non-reversible heat pump, circulator or zone valve

- Room temperature setting adjustable from 5 to 30°
- Zone control with management of switching to hot/cold
- Easy to use with just 3 buttons
- Factory pre-configured product for simplified installation fast

Contains:

- Room thermostat unit power supply with batteries included
- 230 V receiver supply
- Compatible with RF6420 receivers to control the generator (heat pump or boiler)



Tybox 137+ - Ref 6O53O73
Compatible with Tydom smart home hub

Programmable room thermostat with room temperature display

- Adjustment of 2 temperature settings
- 7day/24hour programming
- Quick and customisable programming thanks to pre-sets
- Optimum start function
- Remote control and programming with the Tydom application

Contains:

- Thermostat
- Receiver
- Table stand

Hard-wired thermostat



Tybox 5000 - Ref 6O5O636
Available in a smart programmable pack (thermostat + smart home hub) - see page 17

Room thermostat with room temperature display

- Room temperature setting adjustable from 5 to 30°C
- Easy to use with just 3 buttons
- Powered by AAA batteries (supplied)
- 2 A volt-free change-over switch
- Automatic switching of heating to frost protection with the Tyxal+ range of door/window magnetic contacts.



Hub (plug & play)
Tydom Home - Ref 67OO119



Hub (consumer unit)
Tydom Pro - Ref 67OO117
Option Tydom Pro
External antenna X3D Zigbee - Ref 67OO118

Local and remote control from the free Tydom application

Classic hard-wired installation

Hard-wired thermostats

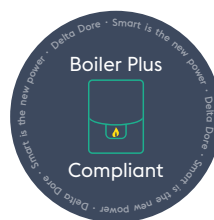


Programmable room thermostat with room temperature display

- Adjustment of 2 temperature settings
- 7day/24hour programming
- Quick and customisable programming thanks to pre-sets
- Heating anticipation start-up function

Tybox 117+ - Ref 6O53O73
Powered by AAA batteries (supplied)

Control packs for boilers & Heat Pumps (Air/Water)



OUR SOLUTION

In order to meet the various controls needs of all boiler types, our control packs deliver exactly what you need in one pack - at their core they are designed to meet the various boiler or building regulation requirements, these packs can be easily added to in order to meet any type of multi zone/multi channel installation.

Simplified installation, easy to use

- Temperature sensor calibration
- 2 locking levels: button lock or setpoint adjustment limitation

Remote controlled Tybox contents:

- Room thermostat unit power supply with batteries included
- 230 V receiver supply



The advantages of a smart home

Quick and easy to link the products to the Tydom smart home hub

Remote control of heating on smartphone or tablet with feedback to determine the room temperature of the home or through voice control.

Scalable solution for controlling other points in the home depending on the system including the alarm, lighting, roller shutters, garage door, or gate

Installation for smart homes

Combi control packs



**Tybox 5000
connected pack 1 zone**
Ref 6O5O67I

Wired version for remote control of the heating on the Tydom application

Composition:

- 1 Tydom Home hub
- 1 Tybox 5000 thermostat (only 1 Tybox 5000 per Tydom)



**Tybox 2300
connected pack 1 zone**
Ref 6O5O68I

Remote control of the heating on the Tydom application

Composition :

- 1 Tydom Home hub
- 1 Tybox 5IOI thermostat
- 1 RF 6OOO+ receiver



x2



**Tybox 2300
connected pack 2 zones**
Ref 6O53O85

2 heating zones for boiler and/or heat pump

Composition :

- 1 Tydom Home hub
- 2 Tybox 5IOI thermostats
- 2 RF6OOO+ receivers

System & regular boiler control packs



**Tybox 2300 two channel
connected system pack**
Ref 6O53O87



2 channel smart pack for system/regular boiler

Composition :

- 1 Tydom Home hub
- 1 Tybox 5IOI thermostat
- 1 RF 6OOO+ receiver
- 1 Tyxia 64IO receiver



x2



**Tybox 2300
3 channel system pack**
Ref 6O53O86

2 heating zones and 1 hot water zone for system boilers

Composition :

- 1 Tydom Home hub
- 2 Tybox 5IOI thermostats
- 2 RF 6OOO+ receivers
- 1 Tyxia 64IO receiver

Classic installation

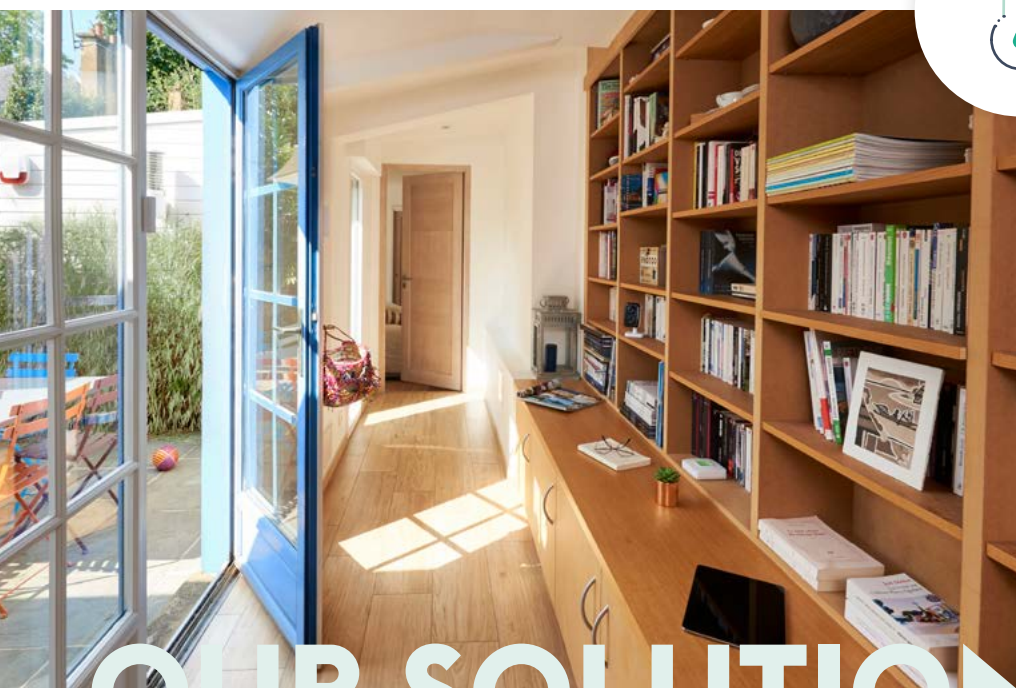
Programmer



TYBOX 827 W RF
Ref 6O5O537

2 channel wireless programmer with built in thermostat (heating & hot water)

Controls for Underfloor heating



OUR SOLUTION

Depending on how the property is laid out, you may need multizone management.

Our products are adapted for this kind of system & will manage up to 32 zones.

Also, it is quite possible to combine hard-wired and wireless setups for the same building so that, on the one hand, it is easier to install with less wiring and, on the other, to easily plan ahead for extensions.



The advantages of a smart home

Local control, on smartphone or tablet or by voice control

A continuous connection locally or remotely so you can manage heating or cooling

Wherever you are, you are guaranteed customised, dedicated conditions for each zone

Feedback so you can check that the orders you give are properly carried out

Scalable solution for controlling other points in the home depending on the system including the alarm, lighting, roller shutters, garage door, or gate

Installation for smart homes



Delta 8000 BT ref. 6053048

Technical unit with 8 outputs expandable to 16



Delta 8000 RF ref. 6053049

Radio receiver gateway



Radio version
Delta 8000 TA RF ref. 6053050

Bus version
Delta Bus 8000 TA BUS ref. 6053052

Room thermostat



Radio version
Delta 8000 TAP RF ref. 6053051

Bus version
Delta 8000 TAP BUS ref. 6053053

Programmable room thermostat



Delta 8000 Master ref. 6053054

Radio programmer

Hot water receiver



Tyxia 6410 - Ref 6351180

Controls the on/off of a hot water zone valve(s) via Tydom

Three zone Underfloor Heating Pack

Base pack controls 3 zones of heating - expandable up to 32 zones via complementary products

- Option of changing each zone's setpoint from each thermostat
- Centralised or zone programming via the Tydom application



UHF connected pack Ref. 6053078



Complementary products

Additional underfloor heating zones



Tybox 5101 white
ref 6300045



Tybox 5101 anthracite
ref 6300052

Additional thermostats to meet your UHF installation requirements.

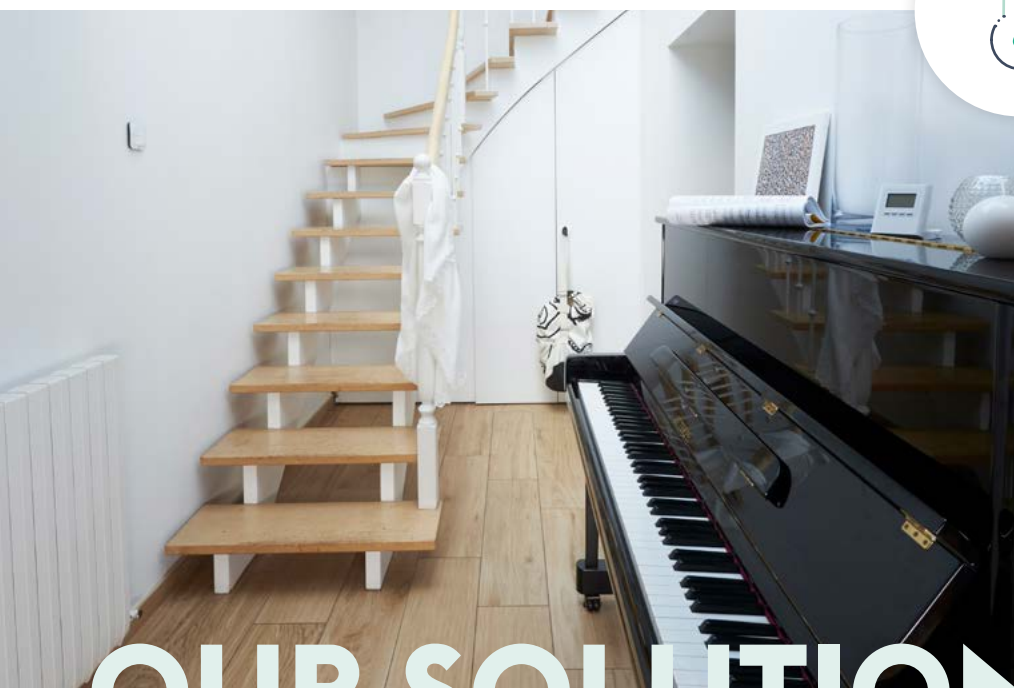
Additional radiator circuit



Tybox 2300 - Ref 6053081
Compatible with Tydom
smart home hub

Room thermostat with room temperature display
Control of boiler, wood stove, non-reversible heat pump, circulator or zone valve

Control for Ducted systems & Heat Pumps (Air/Air)



OUR SOLUTION

The Tybox room thermostat is available in many versions, some of which are particularly designed for controlling heat pumps in heating or cooling mode.

Its small size (80 x 80 mm), makes it easier to integrate into all types of home and it's easy to use with just 3 buttons

- Hard-wired or wireless version 868 MHz.
- 3 operating modes: Hot (Heat), Cold (Cool), Off



The advantages of a smart home

Quick and easy to link the products to the Tydom smart home hub

Remote control of heating or cooling on smartphone or tablet with feedback to determine the room temperature of the home or through voice control.

Scalable solution for controlling other points in the home depending on the system including the alarm, lighting, roller shutters, garage door, or gate

01

installation for a smart home

Wireless thermostats



Tybox 5300 - Ref 6O53O82
(compatible with Tydom smart home hub)

Room thermostat with room temperature display

Control of boiler, wood stove, heat pump, circulator, zone valve or motorised damper (ductable system)

- Room temperature setting adjustable from 5 to 30°
- Control of 3 operating modes: Heating, Cooling, Off
- Easy to use with just 3 buttons
- Factory pre-configured product for simplified installation

Contains:

- 1 room sensor powered by batteries (supplied)
- 1 230V 5A powered contact receiver
- Compatible with RF642O or RF645O receivers to control the generator (heat pump or boiler).



Tybox 5150 - Ref 6O5O622
(compatible with Tydom smart home hub)

Room thermostat with room temperature display

- Zone control with management of switching to hot/cold
- Zone room temperature display
- Room temperature setting adjustable from 10 to 30°C
- 10°C frost protection setting
- Must be linked to the Tydom Home or Pro Contains:
- 1 thermostat powered by AAA batteries (supplied)
- 1 230 V receiver with 2 contact wired outputs

Smart home option



Hub (plug & play)
Tydom Home - Ref 67OO119



Hub (consumer unit)
Tydom Pro - Ref 67OO117

Option Tydom Pro
External antenna X3D Zigbee - Ref 67OO118

Local and remote control from the free Tydom application

02

Classic installation

Hard-wired thermostat



Tybox 51 - Ref 6O53O36

Button room thermostat

- 3 operating modes: Hot (Heat), Cold (Cool), Off
- Set-point adjustment by mode
- Display of either set-point or room temperature
- Powered by AAA batteries (supplied)
- 2 A volt-free change-over switch



Thermostats and Programmers



Hard-wired 2 zone programmer
Driver 620 - Ref 6050426



Wireless programmable room thermostat
Tybox 157 - Ref 6053021

Compatible with Tydom smart home hubs



Thermostat for electric heating*
Minor 1000 - Ref. 6151058



Thermostat* (to harmonise with wet heating controls)
Tybox 5101 - Ref. 6300045

*compatible with RF 4890, RF 6620, RF 6630, RF 6640

Thermostats & receiver for pilot wire installation



Pilot wire thermostat for small room
Tybox 5701 FP - Ref 6050674



Pilot wire thermostat for large room
Tybox 5702 FP - Ref 6050675



Additional pilot wire receiver (for use with thermostat)
Receiver RF 6700 FP - Ref 6050673

Wireless receivers



4-order Pilot wire receiver for electric radiators with smartphone control via a Tydom connected home hub
RF 6600 FP - Ref 6050561



Wireless receiver for UFH
RF 4890 - Ref 6050615



10K underfloor sensor - Ref 6300037

Receivers for 230V electric radiators :



Pre-cabled 16A powered contact
RF 6620 - Ref 6050638



Terminal block 16A powered contact
RF 6630 - Ref 6050640

Terminal block 16A volt free contact
RF 6640 - Ref 6050641

Delta Dore is a leader in electric heating



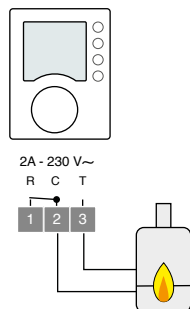
hydraulic

WIRING DIAGRAMS

heating

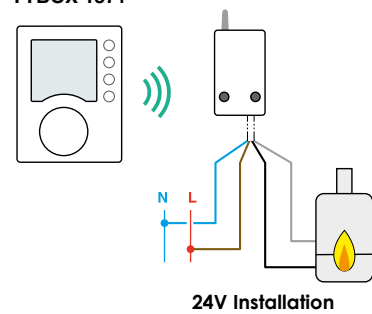
Hard-wired battery-powered thermostat

TYBOX 117+

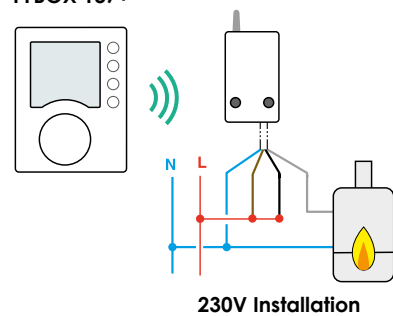


Wireless programmable thermostat

TYBOX 137+

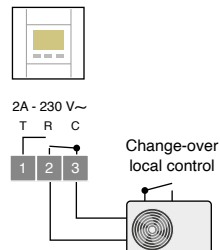


TYBOX 137+



Hard-wired room thermostat

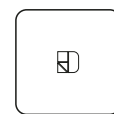
TYBOX 51



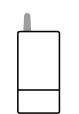
Wireless room thermostat



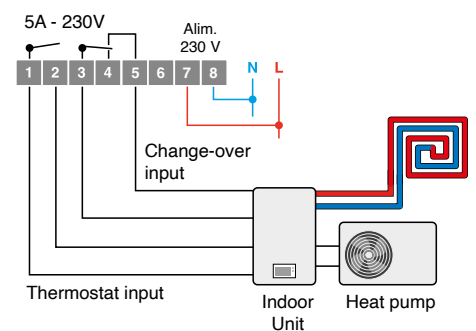
Smart Home hub
TYDOM Home



Wireless
receiver

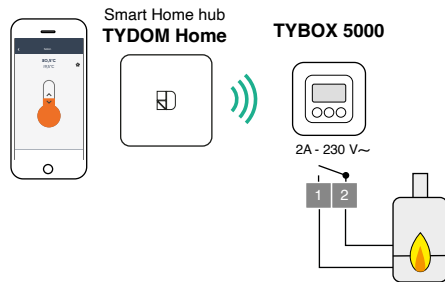


Thermostat
TYBOX 5150

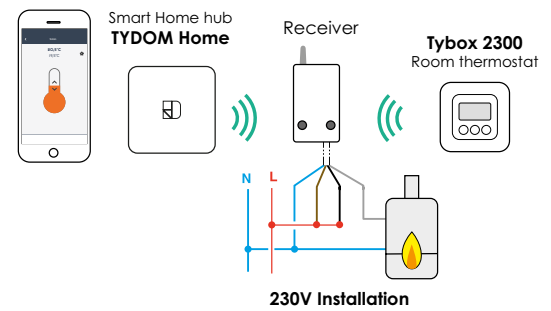
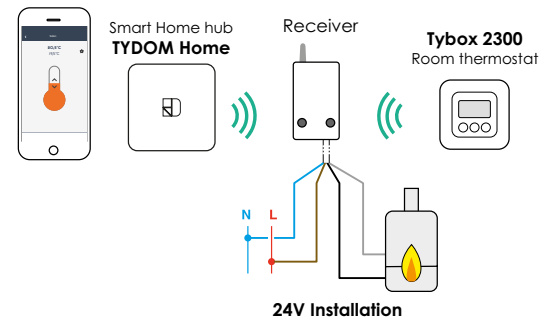


Contact 0207 6602919 for detailed S-Plan and Y-Plan wiring diagrams

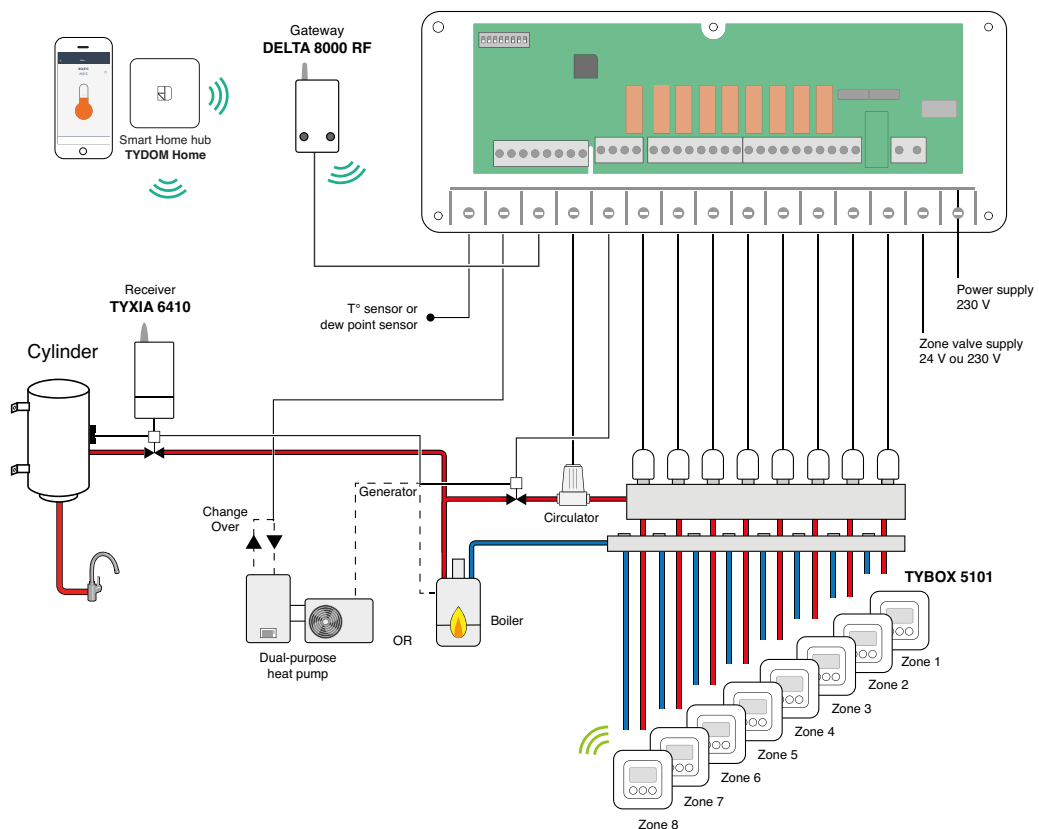
Smart hard-wired thermostat



Smart wireless thermostat



Zone thermostats (application example)





hydraulic

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heating

Smart home hubs

		Ref:
Tydom Home	Hub (plug & play)	6700119
Tydom Pro	Hub (consumer unit)	6700117
External antenna X3D Zigbee	Tydom Pro - optional wireless range extender	6700118

Connected packs

Packs for combi boiler

Tybox 5000 connected pack 1 zone	Hard-wired smart pack: 1 Tybox 5000 room thermostat + 1 Tydom Home smart home hub	6050671
Tybox 2300 connected pack 1 zone	Wireless smart thermostat pack for hot-water heating: 1 Tybox 5101 room thermostat + 1 RF 6000+ receiver + 1 Tydom Home smart home hub	6050681
Tybox 2300 connected pack 2 zones	2 zone smart pack for combi boiler: 1 box Tydom Home + 2 transmitters Tybox 5101 + 2 receivers RF 6000+	6053085

System & regular boiler control packs

Tybox 2300 2 channel system pack	1 zone heating and 1 zone hot water pack for system boiler: 1 Tydom Home smart home hub + 1 Tybox 5101 room thermostat + 1 RF 6000+ receiver + 1 Tyxia 6410 receiver	6053087
Tybox 2300 3 channel system pack	2 zone heating and 1 zone hot water pack for system boilers: 1 Tydom Home smart home hub + 2 Tybox 5101 room thermostats + 2 RF 6000+ receivers + 1 Tyxia 6410 receiver	6053086

Multi-zone controllers

Under Floor Heating connected pack	Three zone Under Floor Heating Pack	6053078
Delta 8000 BT	Technical unit for Delta 8000 system - up to 8 zones	6053048
Delta 8000 RF	Wireless receiver/gateway for Delta 8000 system	6053049
Delta 8000 Master	Wireless 8-zone programmer for Delta 8000 system	6053054
Delta 8000 TA RF	Wireless room thermostat for Delta 8000 system	6053050
Delta 8000 TA BUS	Bus room thermostat for Delta 8000 system	6053052
Delta 8000 TAP RF	Programmable wireless thermostat for Delta 8000 system	6053051
Delta 8000 TAP BUS	Programmable Bus thermostat for Delta 8000 system	6053053

Room thermostats

Wireless programmable thermostat

Tybox 137+	Wireless programmable room thermostat for boiler control - Battery powered	6053073
Tybox 157	Wireless programmable room thermostat only	6053021

Wireless thermostats and receivers

Tybox 2300	Wireless room thermostat for boiler, heat pump or valves	6053081
Tybox 5101 white	Wireless room thermostat for boiler, heat pump or valves (thermostat only)	6300045
Tybox 5101 BK	Wireless room thermostat for boiler, heat pump or valves (thermostat only)	6300052
Tybox 5300	Multi-zone thermostat for heating installations controlled by zone valve or circulator	6053082
RF 6420	Wireless on/off control receiver for boiler or non-reversible heat pump - Multi-zone installation	6050567
Tyxia 6410	Receiver for hot water control	6351180
Tybox 5150	Wireless room thermostat for reversible heat pump	6050622
RF 6450	Wireless on/off control receiver and change-over for reversible heat pump - Multi-zone installation	6050568
RF 6050	Wireless receiver for zone valve linking to 5200 or 5101 TYBOX thermostats	6050633
RF 6500	Change-over control receiver for reversible heat pump	6050612
Tybox 25	Wireless thermostat only	6053015
Tybox 33	Wireless thermostat with digital display for heating	6053002

Hard-wired programmable thermostat

Tybox 117+	Hard-wired programmable room thermostat for boiler control - Battery powered	
Tybox Bus	Opentherm thermostat	6053056

Hard-wired thermostats

Tybox 21	Thermostat with digital display for heating, supply: batteries included	6053034
Tybox 31	Thermostat with digital display and with selector knob for heating, supply: batteries included	6053001
Tybox 51	Thermostat with digital display for heating, power supply: batteries included	6053036

Programmer

TYBOX 827 W RF	2 channel wireless programmer with built in thermostat (heating & hot water)	6050537
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Additional accessories

Cream cover Tybox 5100	Cream cover for Tybox 5xxx series thermostat	6200278
Grey cover Tybox 5100	Grey cover for Tybox 5xxx series thermostat	6200279
Finishing plate	Prevents any damage to the decoration when replacing an old thermostat - delivered in packs of 5	6050566



Delta Dore: we are by your side

020 7660 2919
technical.info@deltadore.com

Let us help you level up and become a smart home installer,
deltadore.co.uk/pro-zone



**DELTA
DORE**

Smart homes, better living