SMART TC°

CONNECTED ROOM THERMOSTAT WITH SMART TC°

SMART TC°

· connected room thermostat
for remote control of heating and domestic hot water production via an app available for free download

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The SMART TC° app is free to download from Play Store and Apple Store, and is compatible with any smartphone and tablet with an Android or IOS (Apple) operating system (not compatible with Windows 10).
SMART TC° can be connected as a room sensor on all our appliances (boilers or heat pumps) equipped with a Diematic Evolution, E-Pilot or IniControl 2 panel. But it can also be installed on all appliances equipped with an Opentherm room sensor or ON/OFF thermostat input.

SMART TC°: FOR PERFECT CONTROL OF YOUR INSTALLATION

The De DIETRICH SMART TC° connected room thermostat and its free application enable communication with a central heating system.

There are different versions of SMART TC° to adapt to the different communication buses on the market.

The same application can be used to control the different versions of SMART TC° :
• SMART TC° - R-Bus (De Dietrich proprietary bus) - wired version
• SMART TC° - OpenTherm and ON-OFF - wired version
• SMART TC° RF - R-Bus and OpenTherm and ON-OFF - wireless version

When connected to the internet, it is possible to control the heating and domestic hot water production from a smartphone or tablet, at any time and from anywhere.

The SMART TC° can be connected to several smartphones, allowing any member of the family to control the heating.

A smartphone can control several SMART TC°s: the main and secondary residences.

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SUSTAINABLE COMFORT®

OVERVIEW OF SMART TC°
THERMOSTAT WIRED

The SMART TC° connected room thermostat works like a classic room sensor, **and is easy and intuitive to set up and use**: only two buttons activated by a brief or long press, and a knob for scrolling through the menus, selecting and accessing options and confirming modifications. **The entire heating and domestic hot water production system can be controlled very precisely in manual or programmed mode**: temperature settings, 3 weekly programs with **quick programming guide**, holiday mode configuration, consumption monitoring, secure installer access to advanced parameters and the log, etc.

SELECTION:

Room temperature measured

or

Room temperature set point

Main menu:
• Selection: brief press
• Configuration: long press
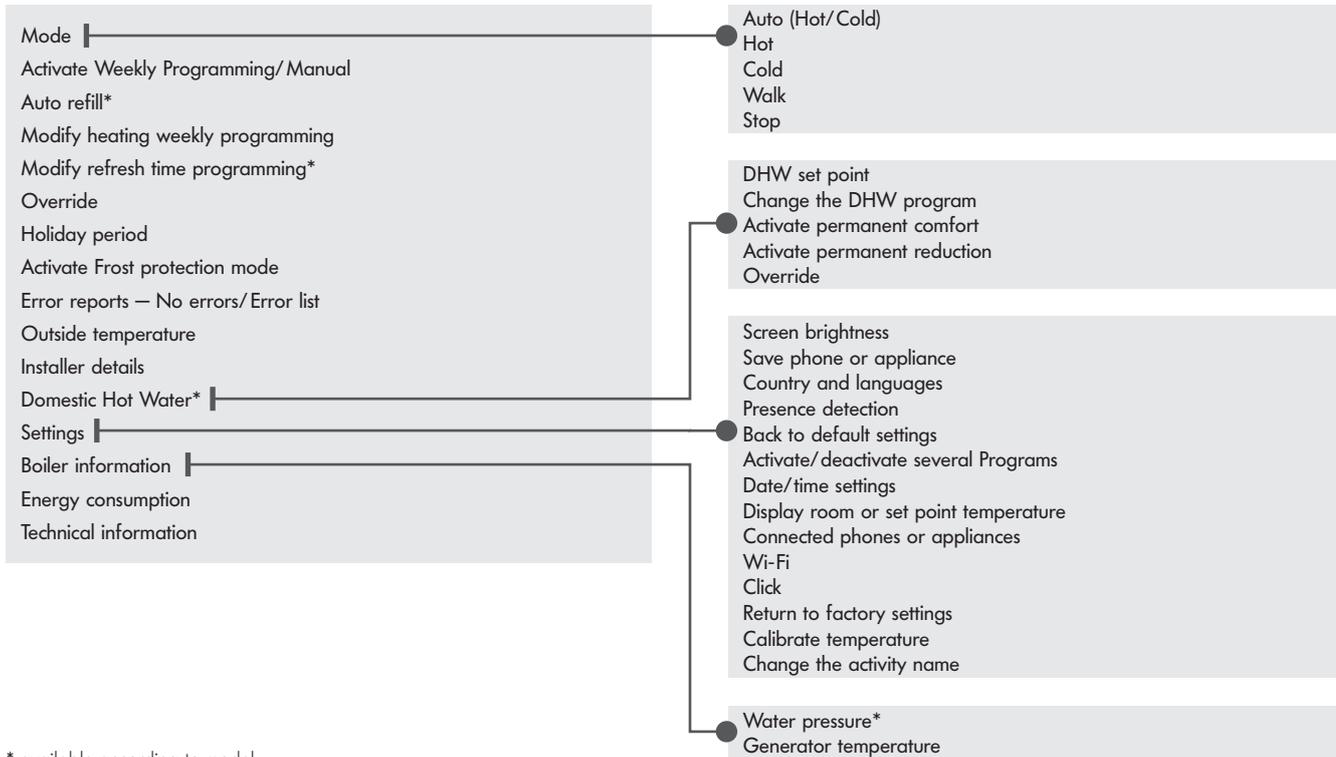
Back: brief press
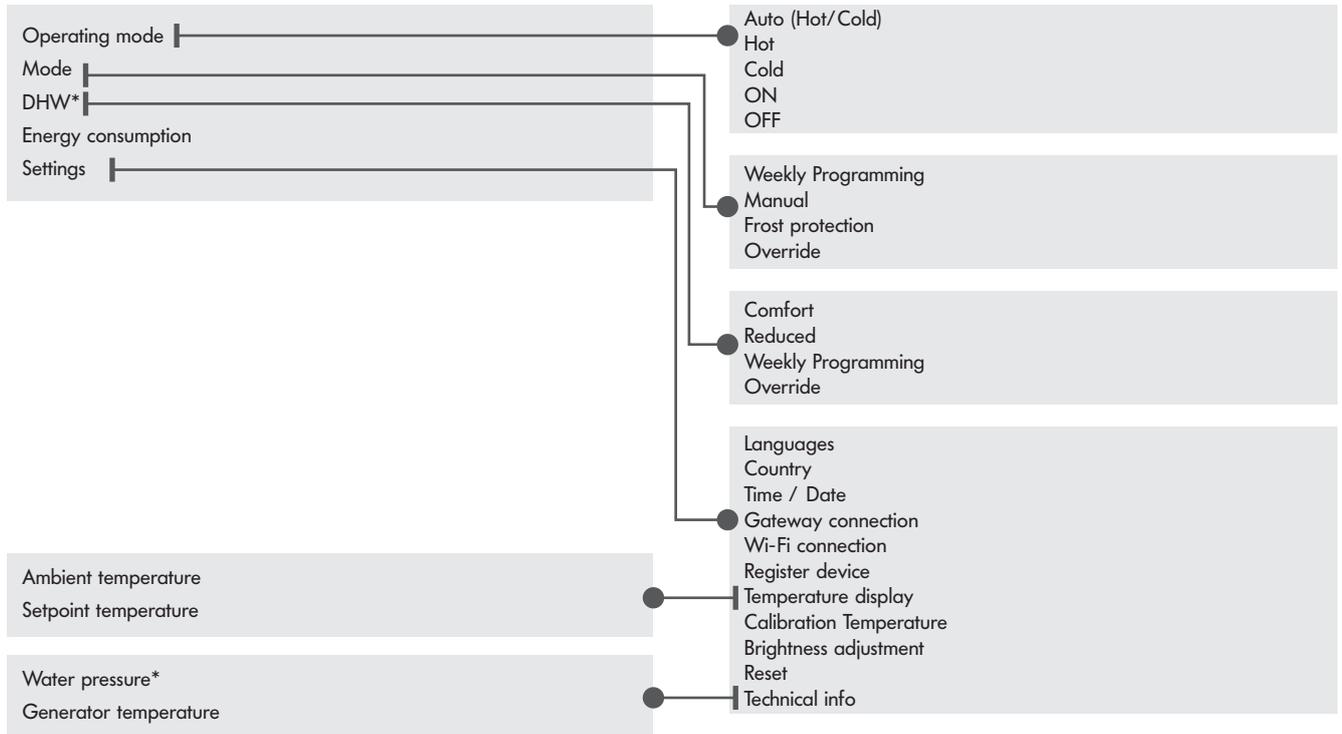Home: long press

19.5 °C
20.0

Operating mode display:
• Automatic
• Manual
• Frost protection
• Holiday
• DHW override

Rotary button:
• Select the display
• Adjust temperature set point
• Navigating within the menu

SMARTTC_Q0001

OVERVIEW OF THE MAIN MENU AND ITS SETTINGS

Mode
Activate Weekly Programming/Manual
Auto refill*
Modify heating weekly programming
Modify refresh time programming*
Override
Holiday period
Activate Frost protection mode
Error reports — No errors/Error list
Outside temperature
Installer details
Domestic Hot Water*
Settings
Boiler information
Energy consumption
Technical information

Auto (Hot/Cold)
Hot
Cold
Walk
Stop

DHW set point
Change the DHW program
Activate permanent comfort
Activate permanent reduction
Override

Screen brightness
Save phone or appliance
Country and languages
Presence detection
Back to default settings
Activate/deactivate several Programs
Date/time settings
Display room or set point temperature
Connected phones or appliances
Wi-Fi
Click
Return to factory settings
Calibrate temperature
Change the activity name

Water pressure*
Generator temperature

* available according to model

EXEMPLES

TEMPERATURE ADJUSTMENT SCREEN

19.5 °C
20.0

SMARTTC_Q001

MENU SCREEN

Energy consumption
Activate Weekly Programming/Manual
Modify heating weekly programming
Holiday period
Activate Frost protection mode

SMARTTC_Q002

CONSUMPTION DISPLAY SCREEN

Energy Consumption
Central heating   610 kWh
Domestic hot water   170 kWh
Cooling   ---
Total   780 kWh

SMARTTC_Q0002

PROGRAMMING SCREEN

Temperature scheduling
This allows you to set your heating system to adjust the temperature during the day to fit you daily routine. Choose one or several day(s)

SUN MON TUE WED THU FRI SAT DONE

SMARTTC_Q0112

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OVERVIEW OF SMART TC° RF
THERMOSTAT WIRELESS

The SMART TC° connected room thermostat works like a classic room sensor, **and is easy and intuitive to set up and use**: only two buttons activated by a brief or long press, and a knob for scrolling through the menus, selecting and accessing options and confirming modifications. **The entire heating and domestic hot water production system can be controlled very precisely in manual or programmed mode**: temperature settings, 3 weekly programs with **quick programming guide**, holiday mode configuration, consumption monitoring, secure installer access to advanced parameters and the log, etc.

SELECTION:

Room temperature measured

or

Room temperature set point

Main menu:
• Selection: brief press
• Configuration: long press

Back: brief press
Home: long press

19.5°c

20°c

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Operating mode display:
• Automatic
• Manual
• Frost protection
• Holiday
• DHW override

Rotary button:
• Select the display
• Adjust temperature set point
• Navigating within the menu

WRU DD 19.5

OVERVIEW OF THE MAIN MENU AND ITS SETTINGS

Operating mode
Mode
DHW*
Energy consumption
Settings

Auto (Hot/Cold)
Hot
Cold
ON
OFF

Weekly Programming
Manual
Frost protection
Override

Comfort
Reduced
Weekly Programming
Override

Languages
Country
Time / Date
Gateway connection
Wi-Fi connection
Register device
Temperature display
Calibration Temperature
Brightness adjustment
Reset
Technical info

Ambient temperature

Setpoint temperature

Water pressure*

Generator temperature

* available according to model
WARNING: the time programme and holiday mode settings are only accessible from the application

EXEMPLES

TEMPERATURE ADJUSTMENT SCREEN

MENU SCREEN

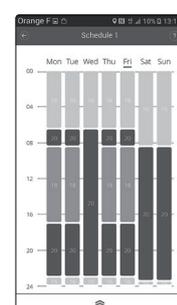CONSUMPTION DISPLAY SCREEN

SCREEN SHOWING WEEKLY PROGRAMMING.

19.5°c
20°c
De Dietrich

WRU DD 19.5

Main menu
Choose heating mode
Show energy consumption
Change settings
View notifications

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SMARTC_Q6006

Energy Consumption
Central heating   610 kWh
Domestic hot water 170 kWh
Cooling   ---
Total   780 kWh

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SMARTC_Q60D

Orange F   🔋 ⛓ .ₗ 10% 🔋 13:11
Schedule 1
Mon Tue Wed Thu Fri Sat Sun

The time programme is not accessible from the wireless version, you must use the application to carry out time programming.

SMARTC_Q0047

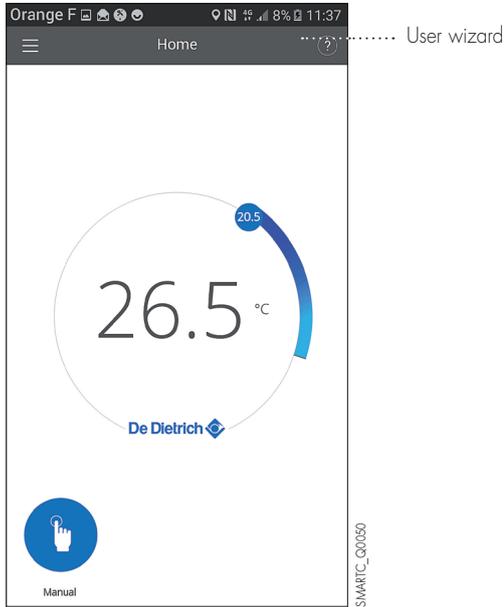# OVERVIEW OF SMART TC°

COMMON APPLICATION FOR **WIRED** AND **WIRELESS VERSIONS**

If you prefer to control your system remotely via a smartphone or tablet, you will need to download the "SMART TC" app
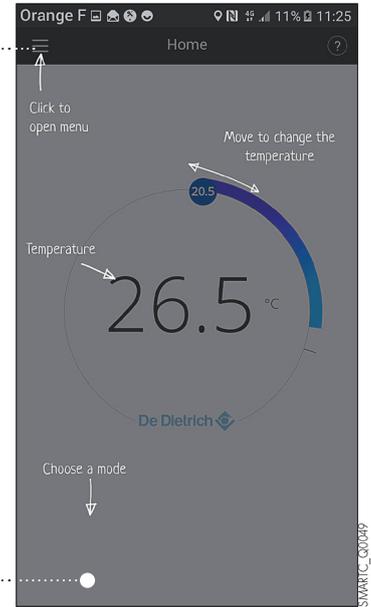The app's home screen has a user wizard.

HOME SCREEN

User wizard

Manual

SMARTC_Q0050

USER WIZARD SCREEN

Main menu:
• Home
• Programs (with quick programming guide)
• Energy consumption
• Installer contact
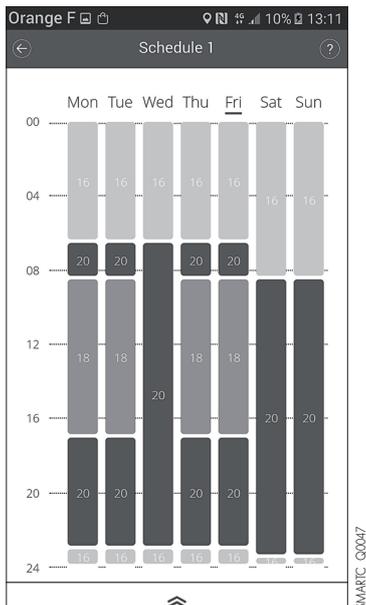• Installer
• Parameters (Settings)
• Information

Click to open menu

Move to change the temperature

Temperature

Operating mode:
• Manual
• Frost protection
• Program 1
• Program 2
• Program 3

Choose a mode

SMARTC_Q0049

BASIC USER FUNCTIONS

• Complete overview of weekly programming
• 3 programs to be defined with temperature time range selection (Caution: programming must be activated in the "Settings" menu of the SMART TC° thermostat):
  - **a quick programming guide,**
  - holiday mode configuration,
  - monitoring of the consumption expressed in € or kWh for heating and DHW production

SCREEN SHOWING WEEKLY PROGRAMMING

SMARTC_Q0047

SCREEN WITH PROPOSED PROGRAMS

Schedules

Schedule 1

Schedule 2

Schedule 3

Quick scheduling

Holiday settings

Activities

SMARTC_Q0048

"ENERGY CONSUMPTION" SCREEN

Energy consumption

Heating energy used | Water energy used

m3   €   ◄ Week 36 ►   Week

2.0
1.5
1.0
0.5
0.0
   Mon Tue Wed Thu Fri Sat Sun

— Temperature   ■ Usage

Usage this week
€ 9,70

SMARTC_Q0046
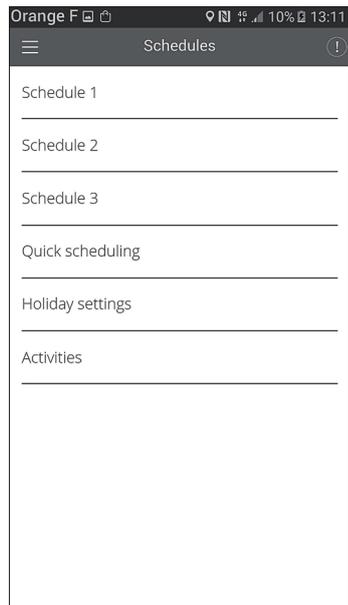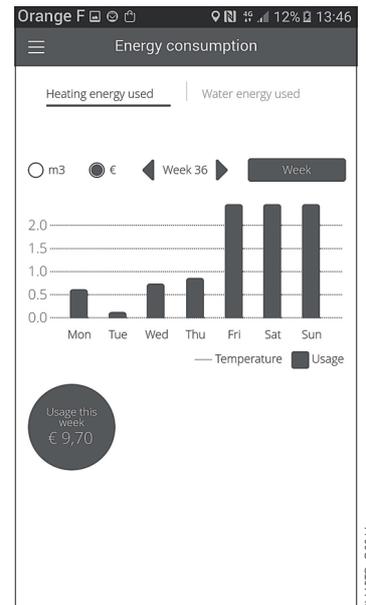
IMPORTANT: Quick programming, accessible in the main menu under "Programs", guides you bys asking questions and configures the programming based on your responses.

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ADVANCED FUNCTIONS, INSTALLER ACCESS

The SMART TC° can be connected to several smartphones or tablets: each member of the family can access the system and control it remotely.
It is also possible to grant secure access to your installer to perform initial diagnostics or access advanced functions sending him/her a temporary login code by invitation.
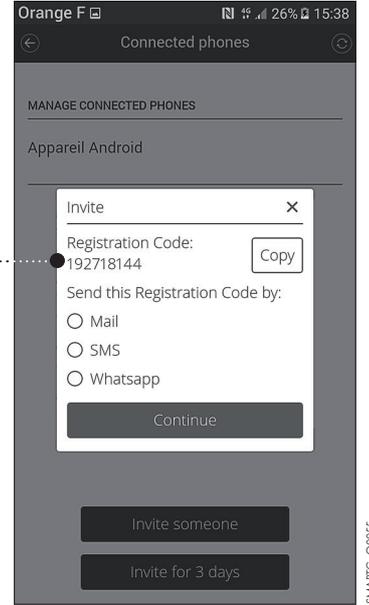The installer is responsible for downloading the app to his/her smartphone or tablet, creating an account and confirming in his/her inbox.

IN THE "PARAMETERS" MENU

"CONNECTED APPLIANCES" SCREEN

CONNECTION CODE

Connection code

Temporarily invite an appliance: friends, installer

The installer will therefore have access to the system parameters in his/her menu: e.g. heating curve.
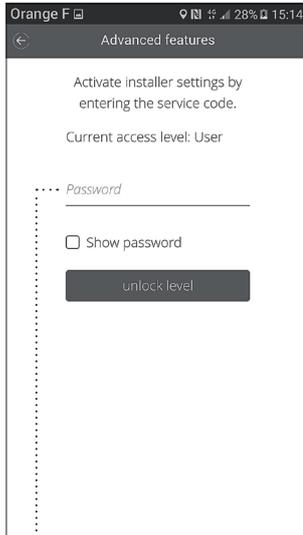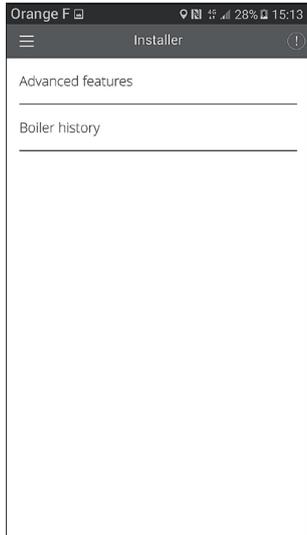
PRO code: 0012
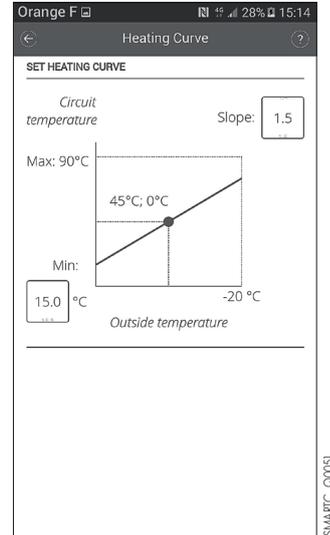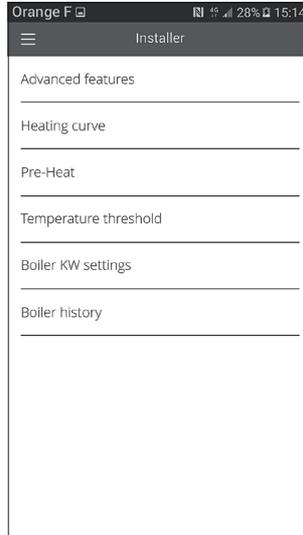
COMMISSIONING THE SMART TC°

DELIVERY

The SMART TC° (package AD311) is supplied as standard with an interface that enables it to communicate with the heating system.
The SMART TC° RF (package AD341) is supplied as standard with an interface that enables it to communicate with the heating system.

MAIN DIMENSIONS

SMART TC°
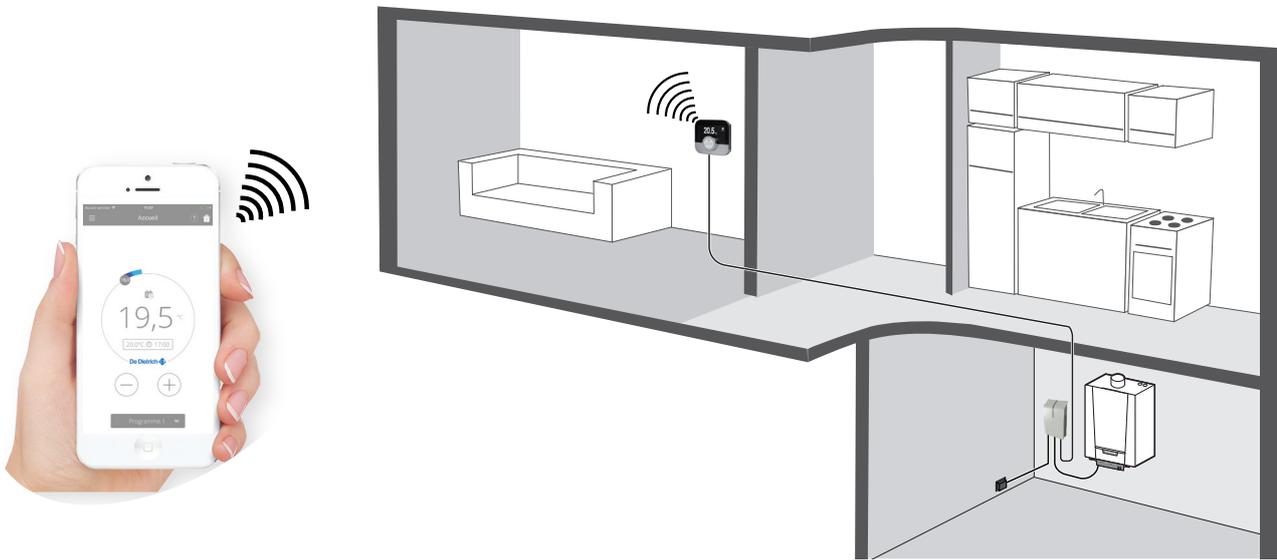

116
106
29

SMARTTC_F0002

INTERFACE

· wired AD311

84
145
29

SMARTTC_F0001

· wireless AD341

SMARTTC_Emetteur RF

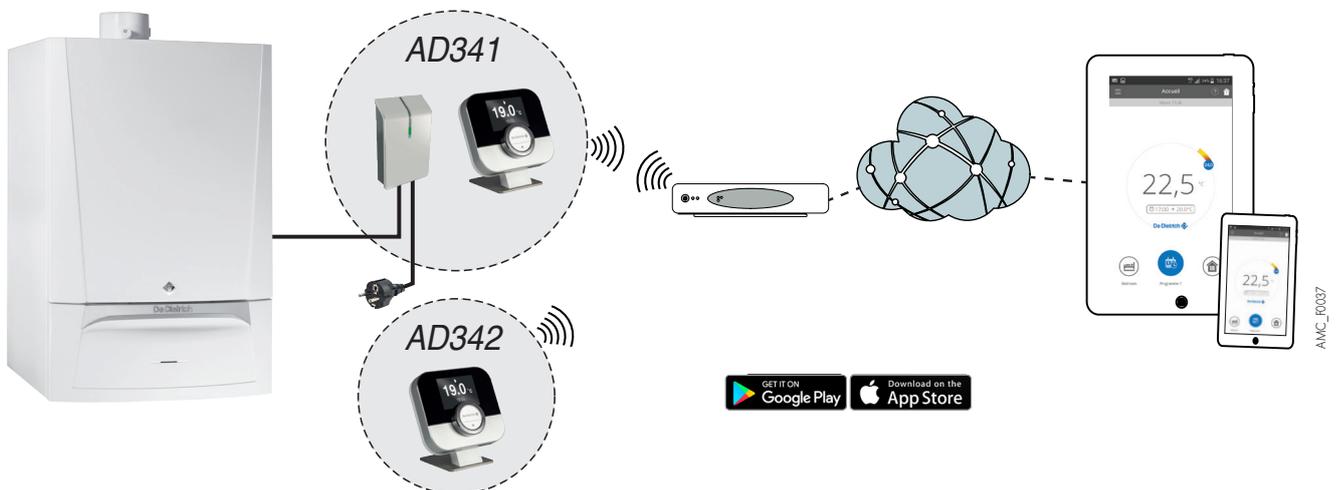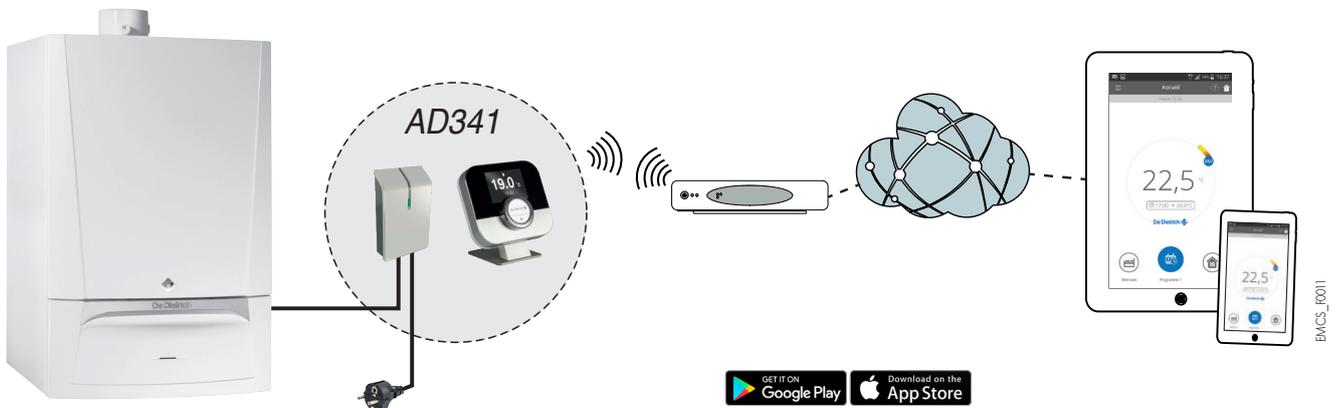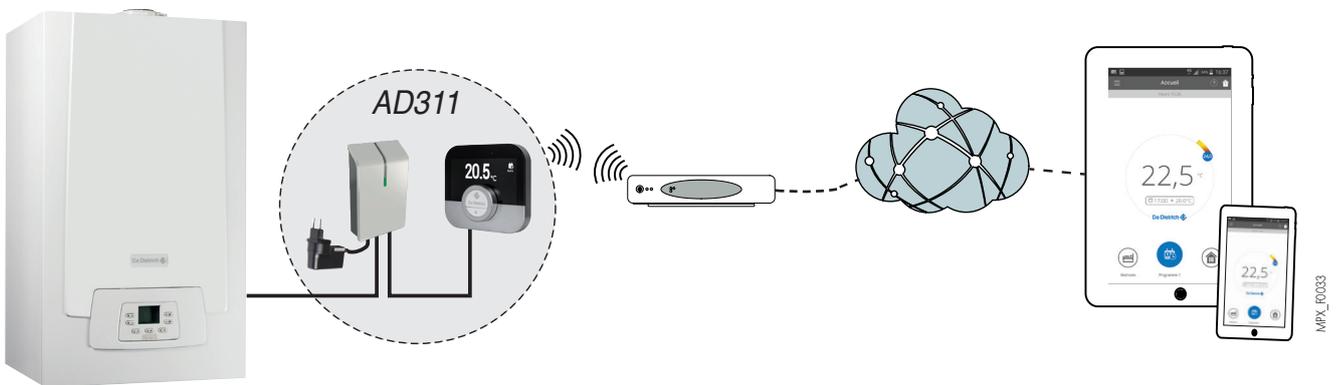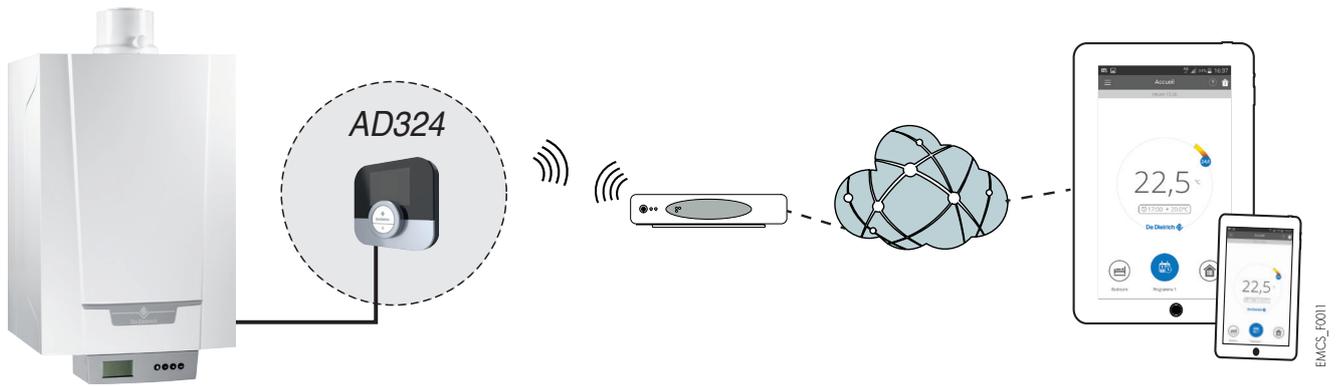(!) The interface of the wireless model is delivered without a plug.

LOCATION

The wireless version can either be installed on a piece of furniture or fixed to the wall in a reference room. The SMART TC° **wired** thermostat is installed on the wall in a reference location. One SMART TC° can be installed per heating circuit.

SMARTTC_F0003

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COMMISSIONING THE SMART TC°

INSTALLATION PRINCIPLE

AD324

EMCS_F0011

AD311

MPX_F0033

AD341

GET IT ON Google Play — Download on the App Store

EMCS_F0011

AD341

AD342

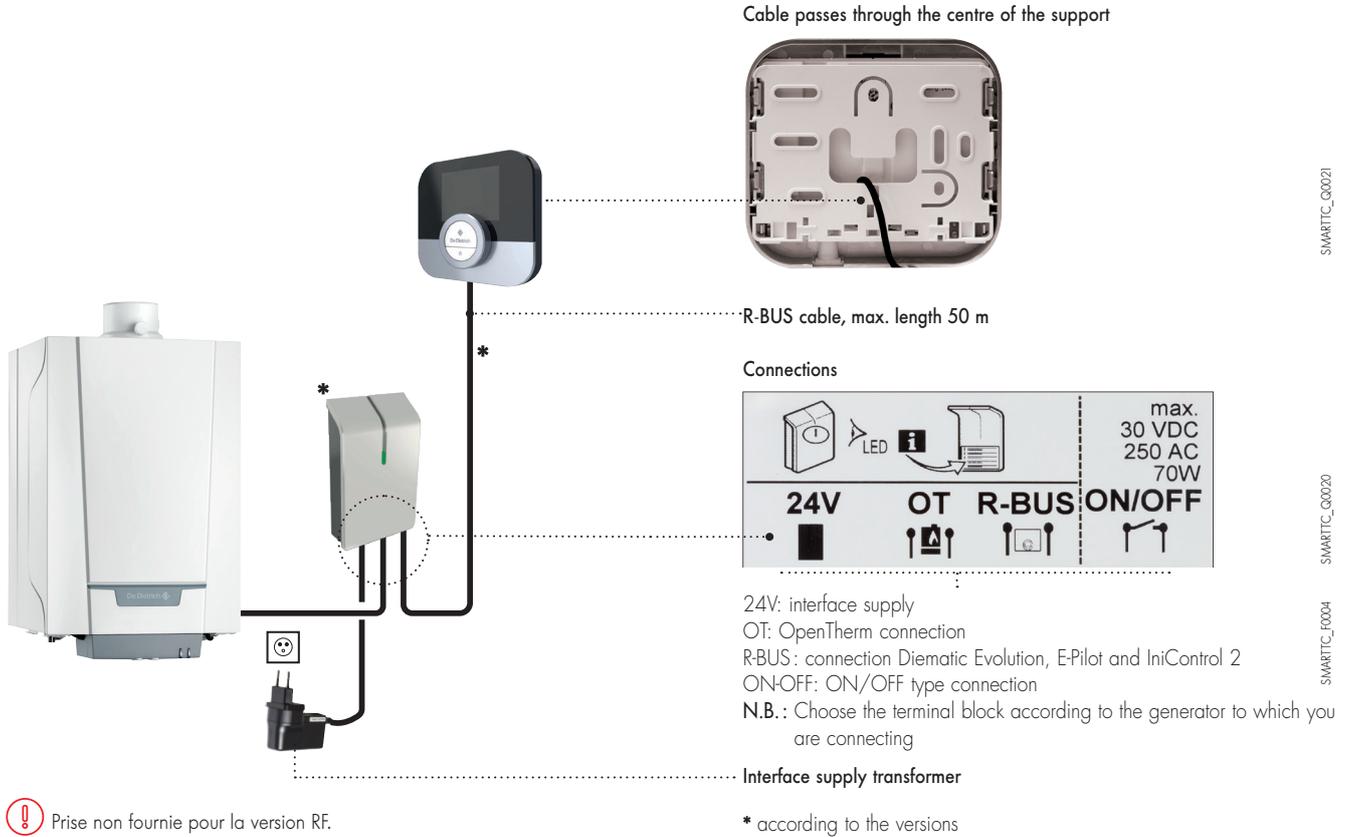GET IT ON Google Play — Download on the App Store

AMC_F0037

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ELECTRICAL CONNECTION

SMART TC° is connected to the room sensor terminal block (green label) either directly or via a wired or wireless interface.
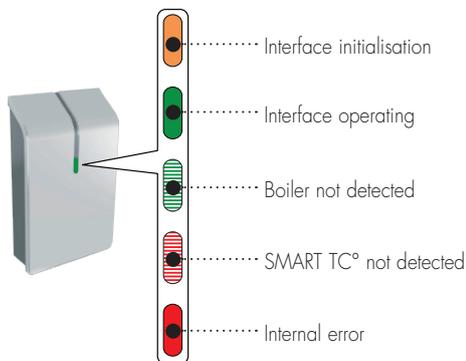
TRANSFORMATEUR D'ALIMENTATION DE L'INTERFACE

Cable passes through the centre of the support

R-BUS cable, max. length 50 m

Connections

max.
30 VDC
250 AC
70W

24V   **OT**   **R-BUS**   **ON/OFF**

24V: interface supply
OT: OpenTherm connection
R-BUS : connection Diematic Evolution, E-Pilot and IniControl 2
ON-OFF: ON/OFF type connection
N.B. : Choose the terminal block according to the generator to which you are connecting

Interface supply transformer

(!) Prise non fournie pour la version RF.

* according to the versions

(!) To connect the interface to the boiler, use the connection terminals for the room sensors

Connecteur RU

Room unit terminal block

MONITORING

The interface is equipped with an LED that allows the connection status to be quickly analysed.

The LED lights up green. ·············▶ The thermostat is activated.

Interface initialisation

Interface operating

Boiler not detected

SMART TC° not detected

Internal error

bienvenido   welkom

welcome   benvenuto

welcome

velkommen

bienvenue   willkommen
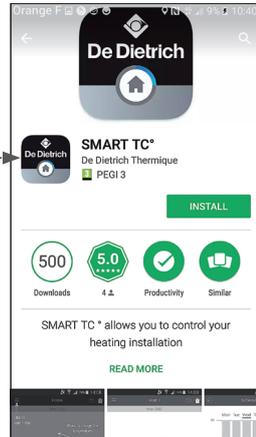
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REMARKS
• When the SMART TC° is connected, it can receive available updates,
• The SMART TC° can operate without being connected to the Wi-Fi. In this case it operates like a conventional room sensor.

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COMMISSIONING SMART TC°

CONNECTING THE SMART TC° TO A SMARTPHONE OR TABLET

Connection is a 4-step process:
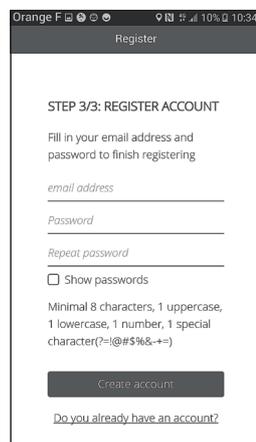

- Connect the SMART TC° to the home Wi-Fi: in Parameters, "Settings menu", go to the Wi-Fi line and enter a password

- Download the SMART TC° app

  from [Google Play]

  or [App Store]

- Launch the app and wait for it to request a pairing code from the SMART TC°

- In Parameters, SMART TC° "Settings menu", select "Save phone or appliance"

- A code (or QR code) is generated. Enter it in the phone

- Complete the saving process:
  - create an account on the smartphone (or tablet) by entering an email address.
  - confirm the account in your inbox.

The SMART TC° is connected, and the user can control the heating and DHW production.

NOTES

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NOTES

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