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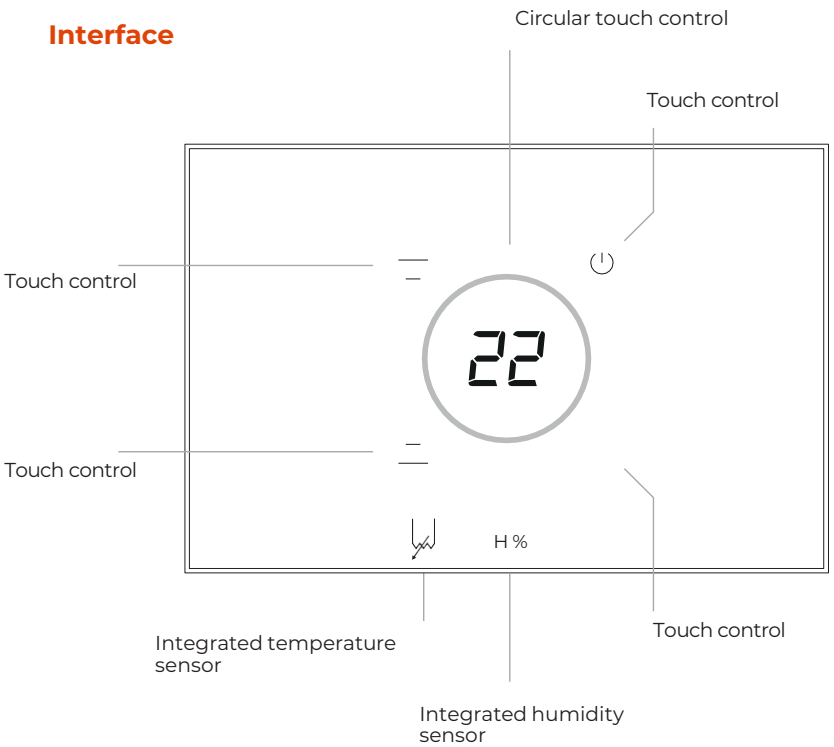
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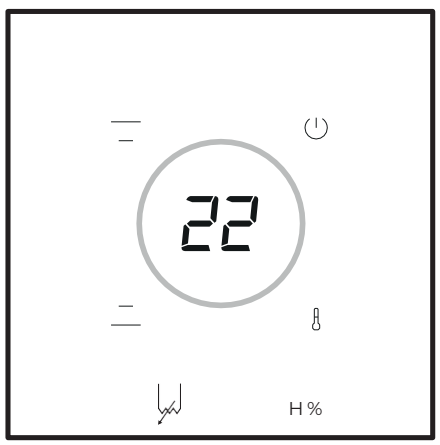
Range of touch thermostats with glass keypad and integrated temperature sensor
Optional humidity sensor according to the product code

D-CT-85-T-x, D-CT-125-T-x - with temperature sensor
D-CT-85-TH-x, D-CT-125-TH-x - with temperature and humidity sensors



Interface





Preset functions of the touch buttons:

1. Increase the desired temperature (+)
2. Activation/deactivation of zone climate control (optional)
3. Decrease the desired temperature (-)
4. Selection of the setpoint for temperature/humidity to be modified (quick press) or season change (long press): in both cases, for temperature values, icon **1** blinks, and for humidity values (opt), icon **3** blinks. Switching from temperature to humidity is done by pressing button (quick press) **4** or icons **1** and **3**; the rotary button modifies the value. Pressing the blinking icon ends the modification mode.
5. Circular touch control for adjusting the desired temperature or other values in the modes activated by buttons **2** and **4**.



CE

EMC – EMISSION and IMMUNITY: Directive 2014/30/EU

Safety- L.V. – SAFETY REQUIREMENTS: Directive 2014/35/EU

EMC - emission specification: EN 55032:2012/AC:2013
Information technology equipment. Radio disturbante Characteristics. Limit and methods of measurement

L.V. - safety specification: EN 62368-1:2014/AC:2015
Information technology equipment. Safety. General requirement

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Central Display

- Displays the measured temperature or other information according to the selected mode
- The decimal point **6** indicates a temperature measured in half-degrees; for example, if the screen displays 22. the measurement is 22.5°C.
- Other special values displayed:
- **(--)** at startup
- **(Lo)** in case of temperature below -9.5 degrees or sensor failure
- **(HI)** in case of temperature above 99.5 degrees
- **(On), (OFF)** during temperature and humidity control mode on/off (optional)
- **(C), (H)** during season change (C=Cool → Summer, H=Heating → Winter)
- **(UP)** indicates that the device is updating its firmware (Upgrade)

Programmable Features of the Touch Control Points

The touch switches 1, 2, and 3 can be reprogrammed and configured as follows:

- Direct input with the possibility of logical inversion (press = ON | release = OFF, and vice versa)
- Input with single or multiple actions upon pressing or releasing
- Input triggering scenarios or group actions
- Analog configuration input such as dimmer or blind
- Control for motorized actions (up/down/stop)

Modes:

- Proximity sensor enabling automatic illumination of icons and the touch switch
- Possibility to activate the cleaning mode (locking all touch switches for a predetermined time) by simultaneously pressing and holding buttons 1 and 4
- "Multiple press" mode allowing the triggering of an action when simultaneously pressing 2 or more touch buttons
- Possibility to activate an acoustic signal when pressing the touch buttons (buzzers)
- "Party/Baby" mode (blocking all touch actions)
- Night light (illuminates the perimeter) programmable via Bus with the possibility of hourly regulation
- Regulation of the overall light intensity
- "Night" mode: allows turning off all backlight LEDs (including the entire touch switch)
- "Hotel" mode: displays only the desired temperature (Switch is off when idle)
- Possibility to select the internal sensor and an optional external sensor or to average both (temperature only) or configure the auxiliary input as an additional digital input (e.g., window contact)
- Offset for calibrating the measured value by the sensor (from -6.0 to +6.0)
- Configuration of the desired temperature change intervals (1.0°C or 0.5°C)

Functionalities

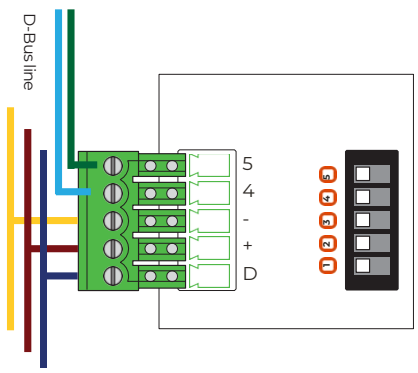
- Zone valve management on/off or PWM system with 2 tubes (controls one relay on the output module)
- Zone valve management on/off or PWM system with 4 tubes (controls 2 relays on the output module)
- Proportional fan-coil unit management with valve control and 3 speeds (selective and progressive) 2-tube system (controls 4 relays on the output module)
- Proportional fan-coil unit management with valve control and 3 speeds (selective and progressive) 4-tube system (controls 8 relays on the output module)
- Proportional fan-coil unit management 0-10V system with 2 tubes (controls 1 extension DC-DA-0-010V – 'current sinking')
- Proportional fan-coil unit management 0-10V system with 2 tubes (controls 2 extensions DC-DA-0-010V – 'current sinking')

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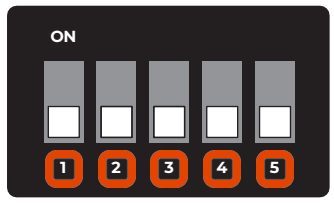
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Wiring

Auxiliary input for external sensor or additional input



At the back of the touch thermostat (under the protective plastic), 5 DIP switches allow you to configure the various operating modes of the device.



DIP SWITCH 1
"Hotel Mode": displays only the desired temperature (display deactivated when idle)

DIP SWITCH 2
Set the desired temperature change step: 1°C (off), 0.5°C (on)

DIP SWITCH 3
Not used

DIP SWITCH 4
Backlight for outlines

DIP SWITCH 5
"Night Mode"



All models are compatible with recessed boxes 502 or D60.



The D-CT-125 models are also compatible with boxes 503.

Colours and models available



Black (B)



White (W)



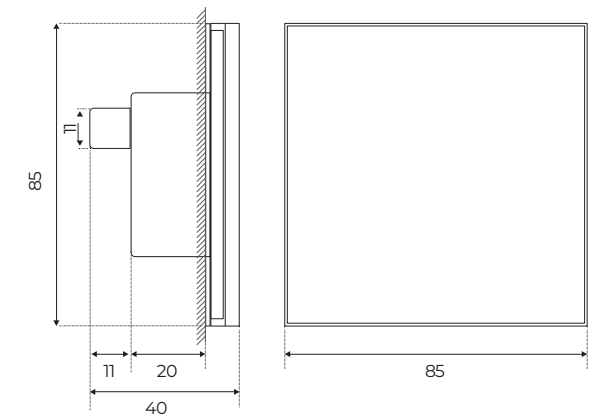
Sand (S)

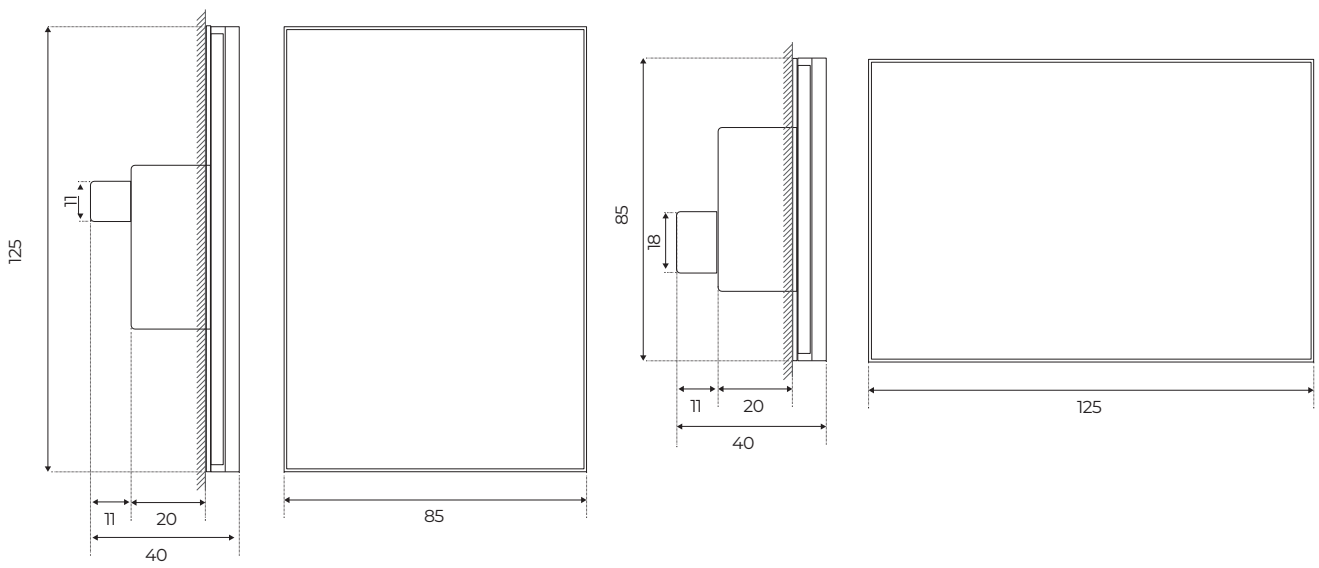
Product reference	Code	Description
D-CT-85-T-x	123	Thermostat 85x85mm with temperature sensor (x= color B/W/S)
D-CT-125-T-x	123	Thermostat 85x125mm with temperature sensor (x= color B/W/S)
D-CT-85-TH-x	124	Thermostat 85x85mm with temperature and humidity sensor (x= color B/W/S)
D-CT-125-TH-x	124	Thermostat 85x125mm with temperature and humidity sensor (x= color B/W/S)

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Dimension (mm)





Technical specifications

Electrical specifications	
Supply voltage (from the Bus)	13,8Vdc
Maximum consumption	180 mA
Minimum consumption	40 mA
Bus	Do.Connect

Environmental specifications	
Ambient operating temperature	0°C ~ 40°C
Environmental impact	2
Protection	(IP20)
Ambient storage humidity (without condensation)	10% ~ 90%