



## **Unienza controls**

Radiant heating and cooling  
made easy for everyone





**Unisenza:**

meaning a unified solution to control radiant heating and cooling that offers a unique sense of comfort in all aspects

# Introducing **Unisenza controls**

Want to enjoy an optimal temperature in every room all year round? It's easier than ever before with [brand]'s new Unisenza control range that ensures a unique sense of comfort and efficiency in radiant heating and cooling with a complete, unified solution that's as easy to install as it is to use.

Simply set the ideal temperature with one of the three user-friendly thermostats; an easy electronic dial thermostat, a modern digital thermostat or a WiFi thermostat with clock and plug & play APP control. Each thermostat allows you to control both heating and cooling so that you can relax and enjoy optimal indoor comfort every day of the year.

Once the temperature has been set, the wiring centre takes over. As the heart of the system, it translates the settings from the thermostat into open-loop signals for the thermal actuators. This way, each individual heating circuit receives exactly the amount of water that every room needs to maintain the temperature set on the thermostat.

The control system quickly responds to every change and adapts effortlessly to guarantee efficient heating and cooling for maximum comfort with minimal energy use. This is perfectly in line with [brand]'s vision to deliver comfort and create sustainable indoor climate comfort solutions.



ELECTRONIC DIAL THERMOSTAT



DIGITAL THERMOSTAT



WIFI THERMOSTAT



THERMAL ACTUATOR



WIRING CENTRE



# Meet the **thermostats**

Each of the available thermostats is hard-wired (230V & 24V) and allows for the control of underfloor heating and cooling with a single device.

## Electronic dial thermostat

- Simple dial thermostat for easy-to-understand temperature control
- Dual LED displays the system status (heating = red, cooling = blue)
- Can be switched centrally from comfort to ECO mode (temperature reduction by 2°C) or from heating to cooling mode via the WiFi thermostat
- Modern and discrete design for on-wall mounting with a white matt finish

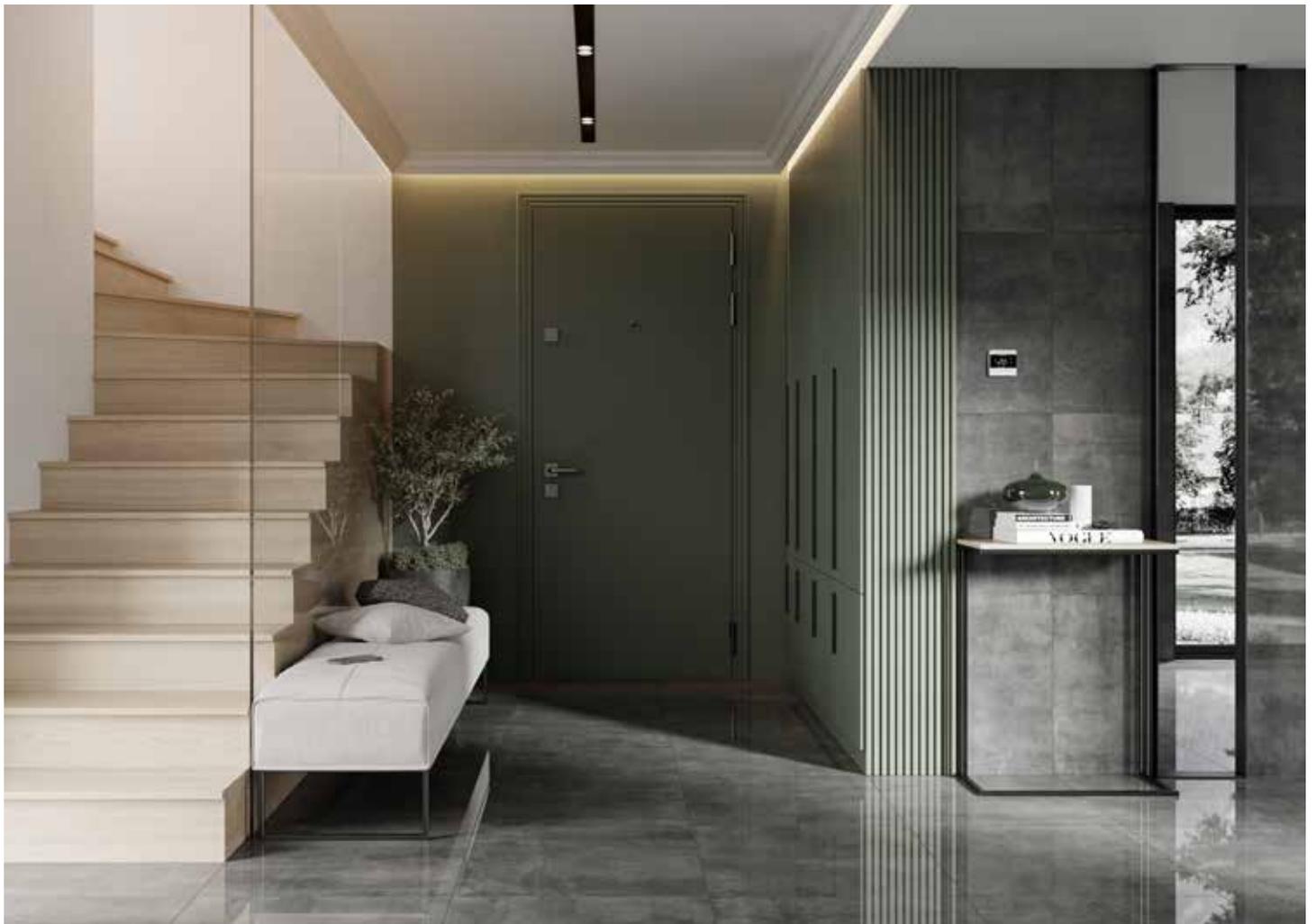


## Digital thermostat

- Simple digital thermostat for recessed mounting in a wide range of mounting boxes
- Intuitive display with easy-to-understand icons for modes and status
- Can be switched centrally from comfort to ECO mode or from heating to cooling mode via the WiFi thermostat.
- External sensor can be used for remote air, floor or limit functions

## WiFi thermostat

- Digital thermostat with a direct WiFi connection for plug & play APP control
- Paired with its intuitive app, the WiFi thermostat can be used to control your comfort on the go using geo location within the APP
- Heating reacts to the end users' movements for maximum energy efficiency
- Fully programmable time/temperature settings to tailor the system to the users' behaviour
- Thermostat in every room for individual time control or positioned centrally to control the dial or digital thermostats
- Compatible with Amazon Echo & Google Assistant





## Meet the **wiring centre**

The wiring centre is available in 2 versions: 230V and 24V.

- Up to 20 actuators per 10-zone wiring centre
- Pump delay selector which allows the individual circuits to open before circulating to prevent wear and noise from the pump
- Pump exercise function that allows the pump to be exercised for 5 minutes every 24 hours to prevent pump seizures following long dormant periods e.g. summer shut-off
- Simple changeover from heating to cooling thanks to the external changeover input
- Input for an optional dew point and/or excess temperature sensor to protect the system from condensation when cooling or excess temperature when heating
- Easy-to-understand LED indicators provide a quick status reference
- Quick and easy installation
- Multiple system applications are possible when used in conjunction with the Unisenza thermostat range



## Meet the **thermal actuator**

The thermal actuator is available both as 230V and as a 24V variant.

- Fulfils the high electrical protection class of IP54 in all mounting positions
- Simple push-and-click assembly using the adapter supplied. Adapters for almost all third-party valves are optionally available
- Low power consumption (< 1W) that allows for energy savings and compliance with various energy directives
- Fully recyclable



UNISENZA CONTROLS RANGE			
Visual	Description	Model/type	Product code
	<b>Unisenza Dial OnWall Thermostat</b> Electronic P controller with noiseless Triac output, temperature range 5-30 °C, for surface mounting or on a flush-mounted connection unit, suitable for heating & cooling or ECO operation (adjustable via jumper), fixed setback temperature 2 K, two-colour LED to indicate the operating mode, flat design with 30 mm installation depth.	230 V 24 V	FFU3TAAENCCC111 FFU0TAAENCCC111
	<b>Unisenza Digital InWall Thermostat</b> Electronic PI controller (2-point or PWM) with silent Triac output and LCD display, temperature range 5-30 °C, click-mounting on flush-mounted connection unit, suitable for heating & cooling and ECO operation, selectable programme options (Comfort, ECO, Automatic, Manual), freely definable setback temperature; connection option for an external floor sensor, ultra-flat design with only 17 mm depth.	230 V 24 V	FFU3TAAFDNCCC311 FFU0TAAFDNCCC311
	<b>Unisenza WiFi InWall Thermostat</b> Electronic PI controller (2-point or PWM) with noiseless Triac output and LCD display, temperature range 5-30 °C, click mounting on flush-mounted connection unit, clock thermostat with weekly programme also as central control for time control of Dial and Digital thermostats. Simple coupling with the WLAN router for APP control possible (no gateway required). Presence control possible through geo-fencing. Suitable for heating & cooling and ECO operation, selectable programme options (comfort, ECO, automatic, manual), connection option for an external floor sensor, ultra-flat design with only 17 mm depth. Online software update capability (OTA). Free APP for Android and IOS.	230 V 24 V	FFU3TAAFDC1CC311 FFU0TAAFDC1CC311
	<b>Unisenza Wiring Center</b> For safe and easy wiring of Unisenza room thermostats and actuators. Suitable for heating and cooling operation. For 5 or 10 room thermostats and 2 actuators per room. Integrated pump switch-off module (live contact in 230 V version) with pump protection function. Boiler/heat pump contact (relay). Connection for optional dew point and excess temperature sensor. LED switching status displays for pump and boiler contacts, heating or cooling mode operation, dew point exceeded, thermostat request etc.. Screw mounting.	230 V, 5 ways 230 V, 10 ways 24 V, 10 ways	FDW3CAWB05FA0011 FDW3CAWB10FA0011 FDW0CAWB10FA0011
	<b>Unisenza Transformer 24 V</b> Transformer for connecting the Unisenza Wiring Center 24 V. Voltage AC 230 V/AC 24 V (50/60 Hz), power max. 60 W, protection class IP65.		FDW3CZWT60ZA2411
	<b>Unisenza floor sensor</b> NTC sensor 10 kOhm for floor temperature detection for the Unisenza Digital and WiFi thermostats. Connection cable 3 m long.		FFZ4SZZWSNTMM2N0
	<b>Unisenza dew point sensor</b> External contact dew point sensor for humidity monitoring in cooling mode. Connection to the Unisenza Wiring Center.		FFZ0SZZWSRHDM5N0
	<b>Unisenza actuator (2 Wire)</b> Normally closed, power 1 W, IP 54 in all mounting positions, with function indicator and snap lock, incl. adapter ring (adapter rings for other makes available on request). First Open function for easy initial installation.	230 V, M30x1,5 230 V, M28x1,5 24 V, M30x1,5 24 V, M28x1,5	FDA30NCS3NN540N0 FDA30NCS2NN540N0 FDA00NCS3NN540N0 FDA00NCS2NN540N0
	<b>Unisenza actuator (4 Wire)</b> Normally closed, 4-wire connection, power 1 W, IP 54 in all mounting positions, with function indicator and snap lock, incl. adapter ring (adapter rings for other makes available on request), First Open function for easy initial installation. Two limit switches 1 A.	230 V, M30x1,5 230 V, M28x1,5 24 V, M30x1,5 24 V, M28x1,5	FDA30NCS3CN540N0 FDA30NCS2CN540N0 FDA00NCS3CN540N0 FDA00NCS2CN540N0

The Unisenza range of controls is fully compatible with all radiant heating system types and all heating/cooling generators (heat pumps, boilers, etc.). An extended warranty of 5 years applies to all Unisenza products.





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