Product Data Sheet

9/12/2025

Unisenza UFH Controls System

UK - Myson

- Efficient Temperature Control

- Flexible Installation

- Energy Efficiency

- User-Friendly

- Smart Connectivity

Description

Simply set the ideal temperature with one of three user-friendly thermostats; a simple electronic dial thermostat, a modern digital thermostat, or a Wifi programmable thermostat with clock and plug & play APP control. Once the temperature is set, the wiring centre takes over and 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.

Area of Application

The Unisenza UFH Controls System is suitable for application in radiant heating and cooling systems, including underfloor heating. It is ideal for both residential and commercial properties, new installations, and retrofit projects. The system ensures precise temperature control with its advanced thermostats and is compatible with heat pumps, boilers, and various heating/cooling generators.

Selection Criteria

For product selection, please use our design service. For a quick selection guide, refer to our brochure.

Basic User Instructions

For optimal use of the Unisenza UFH Controls System, start by installing the wiring centre to connect all thermostats and actuators. Set your preferred temperature using the dial, digital, or WiFi thermostat. The wiring centre will manage the distribution of heating or cooling as required. Ensure all components are hard-wired (230V or 24V) and maintain a clear line of sight for WiFi-enabled devices to ensure uninterrupted communication and control.

Prescription text specifiers

The Unisenza UFH Controls System provides a comprehensive solution for radiant heating and cooling, featuring advanced thermostats (electronic dial, digital, and WiFi), a versatile wiring centre, and efficient thermal actuators. The system operates on both 230V and 24V configurations, employing a noiseless Triac output for efficient temperature regulation within a range of 5-30°C. LED indicators display system status, while the WiFi thermostat offers app control for remote operation. The system supports multiple installations, making it ideal for new projects and retrofits. It ensures minimal energy use, aligning with sustainable climate comfort goals. An extended 5-year warranty covers all Unisenza products, ensuring reliability and peace of mind.

Warranty

For your additional peace of mind, Purmo Group gives the following Warranty against manufacturing defect. Your statutory rights are not affected by this Warranty.

Subject as provided below, Purmo Group warrants to the original purchaser at the original installation site that its products will be free from defects in materials and workmanship for the following periods:

• Hydronic Radiators: 10 years from date of purchase.*

• Fan Assisted Radiators (ULOW-E2): 2 years from date of purchase.*

• Fan Convectors: 2 years from date of purchase.

• Hydronic Underfloor Heating: 10 years for the pipe from date of purchase.

• Hydronic Underfloor Heating: 2 years on accessories, actuators, ball valves, controls, expansion vessels, fittings, low loss headers, manifolds, mixer control groups & toolingfrom date of purchase.

• Hydronic Underfloor Heating: 12 months on all pumps from date of purchase.

• Electric Underfloor Heating: 10 years from date of purchase (except programmer & sensor).

• Electric Radiators: 10 years from date of purchase on radiator unit*, electric controls & electronic components; 2 years from date of purchase.*

• Electric Towel Warmers: 2 years from date of purchase.*

• Hydronic Towel Warmers: 5 to 10 years from date of purchase depending on product type.*

• Myson Radiator Valves and Controls: 2 to 5 years from date of purchase, depending on range.

*Products which are exposed to prolonged extreme conditions, such as high humidity or severe cold/condensation, may be subject to deterioration. This is not a result of any manufacturing defect. Products installed in these circumstances will be subject to a warranty period of twelve months only.

The original purchaser's remedy for breach of this Warranty is expressly limited to repair or replacement of any part or parts found to be defective under conditions of normal service and use during the above Warranty period and does not extend to Purmo Group being liable for any incidental, special or consequential damages or losses whatsoever, such as loss of use of the product, inconvenience or lost profits.

This Warranty does not cover any defect, damage or malfunction in the product which is due to: failure to comply in any respect with Purmo Group's installation, maintenance or operating instructions; faulty storage,
handling, installation or repair; mis-use; neglect; accident; abuse; or general wear and tear.

Before this warranty can be activated, the original purchaser will be required to prove, with supporting documentation, the date and place of purchase, as Purmo Group may need to conduct its investigation into
the alleged defect. This should be within 28 days of the date when the defect was discovered or ought to have reasonably discovered the defect.

Purmo Group reserves the right to make a reasonable charge for inspecting and testing any product which is subject to a Warranty claim and the rights conferred by the Warranty are conditional upon the payment of such charge. The charge may be made, at Purmo Group's discretion, either before or after the inspection and testing of the product. In the event that it is established to Purmo Group's reasonable satisfaction that a valid Warranty claim has been made in respect of the product, then any inspection charge which has been paid will be refunded in full by Purmo Group.

Specification

Feature	Unit	Value
Etim Class		EC003263 - Smart thermostat
Model		On/Off
Type of power supply		230 V AC, 24 V AC
Connection		3-/4-wire
With receiver		No
Measuring range min	Degrees celsius (°C)	5 - 30
External sensor		No
Thermal feedback		None
Control characteristic		P
Suitable for heating		Yes
Number of heater outputs		1
Suitable for cooling		Yes
Number of cooler outputs		1
Differential value min	Kelvin (K)	0.5 - 1
Adjustable differential		Yes
Temperature readable		Yes
With sound indicator		No
Sensor/feeler type		Resistance sensor
Mounting method		Surface mounted/recessed mounted
With display		No
Operation		Turn
Concealed operation		No
With tap water circuit		No
Contact type		Change-over contact (NO/NC)
Max. contact voltage	Volt (V)	24, 230
Max. contact load	Ampere (A)	0.43, 4.2
Degree of protection (IP)		IP30
Degree of protection (NEMA)		1
Explosion-proof		No
Colour		White
RAL-number		9016
Height	Millimetre (mm)	82
Width	Millimetre (mm)	85
Depth	Millimetre (mm)	17
Class of the temperature control		I
Standby power consumption (solstandby)	Watt (W)	1
Compatible with Apple HomeKit		No

Feature	Unit	Value
Compatible with Google Assistant		No
Compatible with Amazon Alexa		No
IFTTT support available		No
Regulation type on/off		Yes
Regulation type modulating		Yes
Communications protocol		Other
Type of power supply		230 V, 24 V
Connection		3-wire
With receiver		No
Measuring range min	Degrees celsius (°C)	5 - 35
External sensor		Yes
With thermal feedback		No
Control characteristic		PI
Adaptive (self-learning)		No, Yes
Suitable for heating		Yes
Number of heater outputs		1
Suitable for cooling		Yes
Number of cooler outputs		1
Ventilation		No
Differential value min	Kelvin (K)	0.5 - 2
Adjustable differential		Yes
Sensor/feeler type		Resistance sensor
Temperature readable		Yes
With display		Yes
Type of clock		Other, Year clock
Clock model		Digital
Overtime switch		No
Optimisation		Yes
With tap water circuit		No
Operation		Button
Suitable for floor heating control		Yes
Suitable for district heating control		Yes
Remote operation possible		No, Yes
IFTTT support available		No, Yes
With presence perception		No
Weather-dependent control system		No
Number of switching programmes		5
Contact type		Change-over contact (NO/NC)
Max. contact voltage	Volt (V)	24, 230
Max. contact load	Ampere (A)	0.4, 1.15
Degree of protection (IP)		IP30

Feature	Unit	Value
Colour		White
RAL-number		9016
Width	Millimetre (mm)	85
Depth	Millimetre (mm)	45
Height	Millimetre (mm)	85
Class of the temperature control		II
Standby power consumption (solstandby)	Watt (W)	1
Scope of application		Room
With mounting material		No
Suitable for wall mounting		No, Yes
Suitable for ceiling mounting		No, Yes
Suitable for duct mounting		Yes
Suitable for tube mounting		No
Suitable for air		Yes
Suitable for liquids		No
Suitable for gases		No
With housing		No
Cover attachment		Other
Sensor element inside housing		Yes
Sensor element outside housing		No
Fixed cable to sensor		Yes
Cable length	Metre (m)	1.5
Sensor length	Millimetre (mm)	30, 40
Insert length	Millimetre (mm)	30, 40
Diameter sensor element	Millimetre (mm)	6, 10
Material element		Other
Technology		Capacitive polymer sensor, Other
Active temperature measurement		No
Passive temperature measurement		No, Yes
Average temperature measuring		No
Number of measuring points		1
Measurement of CO2		No
Measurement of VOC		No
Measurement of relative air humidity		No
Measurement of absolute air humidity		No
Enthalpy measurement		No
Measurement of dewpoint		No, Yes
Particulate matter measurement (PM)		No
CO2 measuring range min	parts per million (ppm)	-
VOC measuring range min	parts per million (ppm)	-
Temperature measuring range min	Degrees celsius (°C)	-

Feature	Unit	Value
Measuring range relative air humidity min	Percentage (%)	-
Measuring range absolute air humidity min	Gram per cubic metre (g/m³)	-
Enthalpy measuring range min	Kilojoule per kilogram (kJ/kg)	-
Dewpoint measuring range min	Percentage (%)	- 85
Particulate matter measuring range (PM) min	Microgram per cubic metre (µg/m³)	-
Offset setting possible		No
Trend representation		No
Error registration possible		No
Sensor type		NTC, 10K, Other
Tolerance	Percentage (%)	5
Potentiometer with adjustment knob		No
Supporting protocol for BACnet		No
Supporting protocol for Modbus		No
Supporting protocol for MP (multi point)		No
Supporting protocol for KNX		No
LoRa technology		No
NFC (Near Field Communication)		No
Bluetooth		No
Wi-Fi-compatible		No
Standby push button		No
Wireless		No
With display		No
Type of power supply		Other
Type of electric connection		Other, Screw connection
Rated supply voltage AC min	Volt (V)	- 24
Rated supply voltage DC min	Volt (V)	- 24
With reverse polarity protection		No
Scope of application, flow speed medium min	Metre per second (m/s)	-
Max. ambient humidity (non-condensing)	Percentage (%)	100
Ambient temperature min	Degrees celsius (°C)	- 80
Explosion-proof		No
Degree of protection (IP)		IP22, IP65
Housing height	Millimetre (mm)	10
Housing width	Millimetre (mm)	40
Housing depth	Millimetre (mm)	10
Housing colour		Grey, White
UV resistant		No
Compatible with Apple HomeKit		No

Feature	Unit	Value
Compatible with Google Assistant		No
Compatible with Amazon Alexa		No
IFTTT support available		No

Resources

Document Description	Document Type	Link
	Brochure	https://asset.productmarketingcloud.com/api/assetstorage/3577_8ecdfe99-7ec4-43e2-a92c-3b9fade720a4
Myson Underfloor Heating Brochure	Brochure	https://asset.productmarketingcloud.com/api/assetstorage/3577_c8ffc669-f6bd-4830-9584-c4c92b8b54f7

Items

Local Code	Global Item Code	Item Description
50441	EFZ0SZZWSRHDM5N0	Unisenza Dew Point Sensor
50440	EFZ4SZZWSNTMM2N0	Unisenza Floor Sensor
50431	FFU0TAAAENCCC113	Unisenza Dial 24V Thermostat
50435	FFU0TAAFDC1CC313	Unisenza Wifi 24V Thermostat
50433	FFU0TAAFDNCCC313	Unisenza Digital 24v Thermostat
50430	FFU3TAAAENCCC113	Unisenza Dial 230V Thermostat
50434	FFU3TAAFDC1CC313	Unisenza Wifi 230V Thermostat
50432	FFU3TAAFDNCCC313	Unisenza Digital 230v Thermostat
50444	FFZ4SZZWSNTMM214	Unisenza Discreet Air Sensor