Product Data Sheet

4/1/2025

Unisenza Dew Point Sensor

UK - Myson

- External dew point sensor

- Extended 5-year warranty

- Connects to Unisenza Wiring Centre

- Reliable performance

- Prevents condensation

Description

Myson's Unisenza Dew Point Sensor is an external contact dew point sensor for monitoring humidity in cooling mode. For connection to the Unisenza Wiring Centre. An extended warranty of 5 years applies to all Unisenza products.

Area of Application

The Unisenza Dew Point Sensor is ideal for monitoring humidity in cooling applications, connected to the Unisenza safety edge. It ensures efficient humidity control, preventing condensation issues. Suitable for environments where cooling can create moisture, ensuring system reliability.

Selection Criteria

For selecting the product or calculating the system, please use our technical documents, product manuals, our design service, or contact us via e-mail or phone.

Basic User Instructions

Place the Unisenza Dew Point Sensor in areas susceptible to moisture due to cooling processes. Ensure it is connected to the Unisenza safety edge for optimal performance. Periodically verify sensor operation and warranty status, which extends for five years. Avoid exposure to physical damage and direct water.

Prescription text specifiers

The Unisenza Dew Point Sensor is a high-precision external contact sensor designed for monitoring humidity in cooling applications. It connects to the Unisenza safety edge to ensure consistent moisture detection, preventing the risk of condensation. The sensor is critical for maintaining system efficiency in areas where cooling can generate moisture. An extended 5-year warranty underscores its durability and reliability, making it an excellent choice for maintaining optimal control in demanding environments. Installation and operational manuals are available for further guidance.

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		EC004240 - Sensor (HVAC)
Scope of application		Room
With mounting material		No
Suitable for wall mounting		Yes
Suitable for ceiling mounting		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)	40
Insert length	Millimetre (mm)	40
Diameter sensor element	Millimetre (mm)	10
Material element		Other
Technology		Capacitive polymer sensor
Active temperature measurement		No
Passive temperature measurement		No
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		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)	-
Measuring range relative air humidity min	Percentage (%)	-
Measuring range absolute air humidity	Gram per cubic metre (g/m³)	-

Feature	Unit	Value
min	Gram per cubic metre (g/m³)	-
Enthalpy measuring range min	Kilojoule per kilogram (kJ/kg)	-
Dewpoint measuring range min	Percentage (%)	75 - 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		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		Screw connection
Rated supply voltage AC min	Volt (V)	24, 24 - 24
Rated supply voltage DC min	Volt (V)	24, 24 - 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)	5 - 80
Explosion-proof		No
Degree of protection (IP)		IP22
Housing height	Millimetre (mm)	10
Housing width	Millimetre (mm)	40
Housing depth	Millimetre (mm)	10
Housing colour		Grey
UV resistant		No
Compatible with Apple HomeKit		No
Compatible with Google Assistant		No
Compatible with Amazon Alexa		No

Feature	Unit	Value
IFTTT support available		No

Resources

Document Description	Document Type	Link
Unisenza Brochure ENG	Brochure	https://asset.productmarketingcloud.com/api/assetstorage/3577_89ca48f5-6d06-4edf-aa44-d46cdb6852e8
Myson Complete Solutions - Full Brochure	Brochure	https://asset.productmarketingcloud.com/api/assetstorage/3577_24872a57-c3a5-4956-ab4b-dfa3b522c19b
Range brochure	Brochure	https://asset.productmarketingcloud.com/api/assetstorage/3577_3e6c4df2-7006-4133-88db-1026c6c421d2

Items

Local Code	Global Item Code	Item Description
50441	EFZ0SZZWSRHDM5N0	Unisenza Dew Point Sensor