

WMT.HT Series

Wall Mounted Humidity Transmitters

20251110R1

Technical Catalogue



WMT Series Wall Mounted Humidity Transmitters are designed for reliable relative humidity measurement inside HVAC units and air handling equipment.

The device combines a robust IP54 wall-mounted enclosure with an external humidity probe, allowing accurate measurement in internal air streams of ventilation and climate control systems.

By enabling demand-based humidity control, the transmitter helps optimize system performance, improve indoor comfort, and reduce unnecessary energy consumption.

The compact enclosure ensures easy mounting inside the unit body, while the integrated high-accuracy sensing element provides long-term stability and consistent measurement performance.

Features

- 0.....100% RH measurement range
- 0–10 V / 4–20mA analog output
- 24 V AC/DC power supply
- Max. 3 VA power consumption
- ±2% RH measurement accuracy
- Operating range: –10 °C to +60 °C
- 0–100% RH (non-condensing)
- External humidity probe for internal air measurement
- IP54 enclosure protection (excluding sensor probe)
- High-accuracy digital humidity sensing element

Order Codes

WMT.HT.1021	Wall Mounted Humidity Transmitter – 0–10V / 2–10V / 4–20mA Output
WMT.HT.1021.X	<p>.NTC10K NTC10K Passive Temperature Sensor</p> <p>.PT1000 PT1000 Passive Temperature Sensor</p> <p>.PT100 PT100 Passive Temperature Sensor</p> <p>.M Modbus-RTU Communication</p> <p>.D Display Option</p> <p>.R Extra Relay Output</p>

Warnings



Before starting the installation of the device, carefully read the user manual and the warnings below.

The user is responsible for any damage, loss, or personal injury resulting from failure to comply with the warnings in this manual. Do not modify or attempt to repair the device. Any intervention on the device may cause malfunction, damage to the device or the system.

In such cases, the device will be excluded from the warranty coverage.

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Technical Specifications

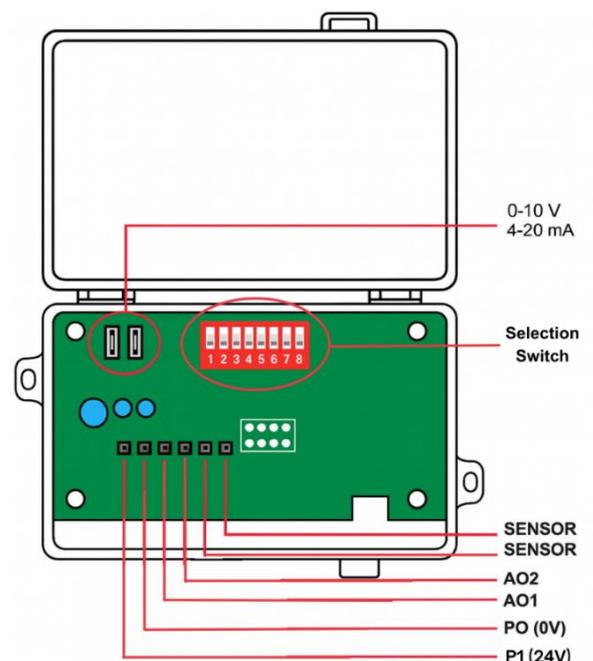
Electrical Specifications	Power Supply	24 V AC/DC $\pm 10\%$, 50/60 Hz
	Power Consumption	3 VA
	Connection	Connector 1.5 mm ²
Environmental Specifications	Operating Temperature	-10 ... +60°C
	Storage Temperature	-25 ... +70°C (Without icing and condensation)
	Relative Humidity	0...90% RH (non-condensing)
	Altitude	Max. 2000m.
Functions	Operating Environment	Non-flammable and non-corrosive environments
	Outputs	Selectable: 0–10V / 2–10V / 4–20mA
Safety Information	IP Protection Rating	IP54 enclosure protection (excluding sensor probe)
	Certification EN	EN60529

Enclosure Specifications

Enclosure Type	Wall Mounted (Internal Unit Installation)
Dimensions	W100 x H80 x D40 (mm) (Width x Height x Depth)
Housing Material	Polycarbonate (PC)
Weight	168gr

Probe Specifications

Probe Diameter	Ø20 mm
Total Probe Length	125mm
Smooth Section Length	100mm
Perforated Tip Length	25mm
Design	25 mm External probe with perforated tip for optimized airflow sensing
Probe material	Polycarbonate (PC)



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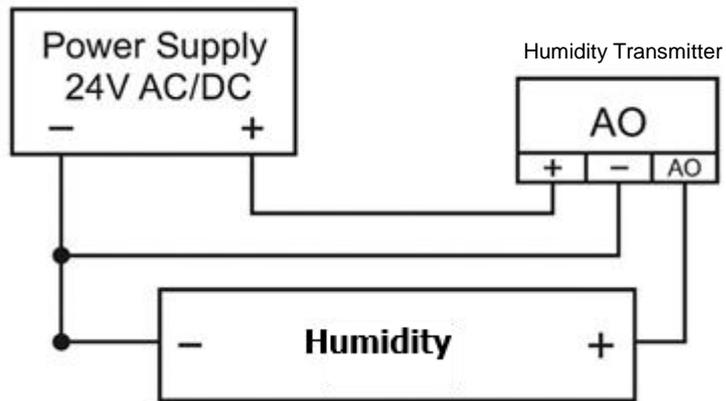
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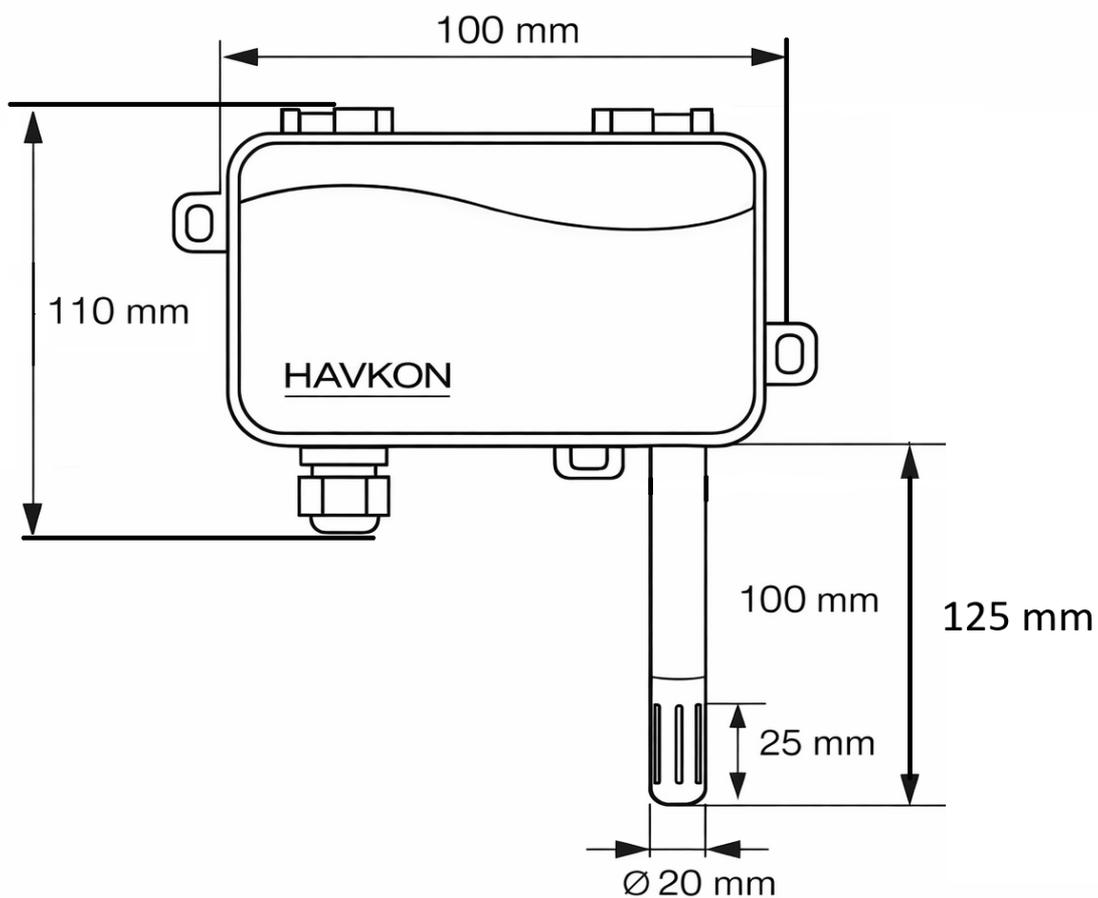
Wiring Diagram

WMT.HT Series transmitters provide proportional humidity and temperature outputs for HVAC control applications.



AO (Selectable: 0–10V / 2–10V / 4–20mA)

Dimensions



All dimensions in mm.

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Safety Instructions



- The WMT.HT series is a wall mounted humidity transmitter designed for internal HVAC unit installation and must be operated in accordance with this manual.
- **Ensure that the connection cables are de-energized during installation.**
- The device must be protected from **moisture, vibration, and contamination**. Respect the specified operating temperature range.
- For signal and analog output lines, **shielded and twisted pair cables** must be used. These cables must be routed away from high-power lines and equipment to prevent interference.
- **Installation and electrical connections must be performed by qualified personnel** in accordance with the guidelines in this manual.
- **Fuse ratings and cable cross-sections** must be selected based on the load current and the device's operating voltage.
- **Power supply cables** must conform to **IEC 60227** or **IEC 60245** standards.
- For safety, the mains switch must be located in a position **easily accessible to the operator** and **clearly marked as being related to the device**.