

Humidity and Temperature Transmitters

RHT-WM and RHT-DM



- Loop power supply (2-wire)
- Metal or plastic probe

- Dew point calculation
- Adjustable measurement ranges



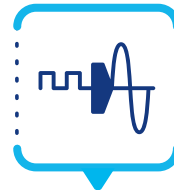
WALL MOUNTING



DUCT MOUNTING



ISOLATED ANALOG OUTPUTS



0.0008 mA: ANALOG OUTPUT RESOLUTION



OUTPUT FORCING AND DIAGNOSTICS

The **RHT-WM** and **RHT-DM** transmitters have highly accurate and stable sensors for measuring relative humidity and temperature. The measured values are converted into 4 to 20 mA output signals that are linearly related to their readings.

Since they are microprocessor-based devices, it is possible to use the **TxConfig-USB** communication interface and the **SigNow** app or software, available for Android and Windows, to configure them. Outputs can be configured to transmit temperature, relative humidity or dew point.

The **RHT-WM** model must be wall-mounted. The **RHT-DM** model has an extended sensor probe to be mounted in ducts or through walls.

Whilst every effort has been made to ensure the accuracy of this specification, we cannot accept responsibility for damage, injury, loss or expense from errors or omissions. In the interest of technical improvement, this specification may be altered without notice.

For pricing or any further information, please contact Omni Instruments Ltd.



Measurement and data acquisition solutions

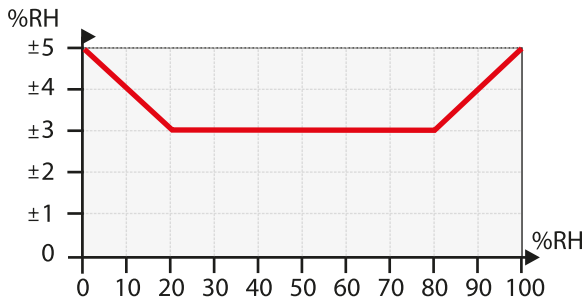
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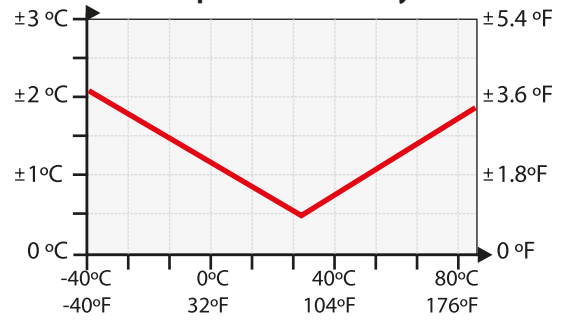
Mailing Address: Unit 1, 14 Nobel Road,
Wester Gourdie Industrial Estate,
Dundee, DD2 4UH.

Measurement Accuracy and Sensor Operating Limits

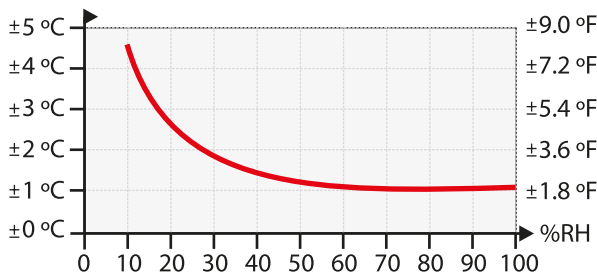
Relative Humidity Accuracy @25°C



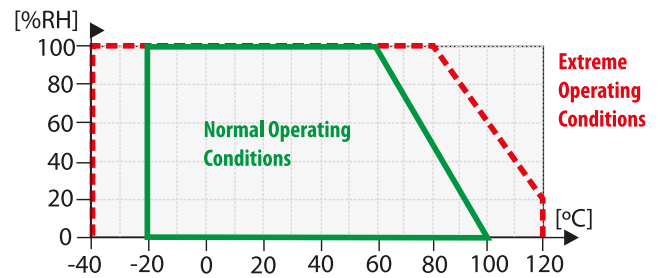
Temperature Accuracy



Dew Point Accuracy @25°C



RH Sensor Operating Conditions



Technical Specifications



	RHT-WM	RHT-DM
Humidity Measurement	Configurable between 0 and 100 % RH	
Temperature Measurement	Configurable between -20 and 70 °C	Configurable between -40 and 120 °C
Dew Point Measurement	Configurable between -100 and 103 °C	
Outputs	4-20 mA or 20-4 mA current, 2-wire type - loop powered	
OUT1 and OUT2 Resolution	0.0008 mA (4-20 mA)	
Output Isolation	4-20 mA isolated outputs	
Rod Material	-	SS316 or PA-GF
Rod Length	-	150 or 250 mm
Protection Index	Electronic module housing: IP65 Sensor housing: IP40	
Certifications	CE Mark	
Internal Protection Against Reversal Polarity of Voltage Supply		

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