



# Humidity and Temperature Transmitters

## RHT-P10 and RHT-XS



- Loop power supply (2-wire)
- Remote probe with 3 m cable
- Dew point calculation
- Adjustable measurement ranges



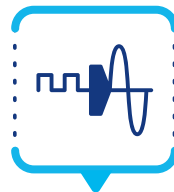
**SUPPORTS UP TO 10 BAR**



**316 STAINLESS STEEL PROBE**



**ISOLATED ANALOG OUTPUTS**



**0.0008 mA: ANALOG OUTPUT RESOLUTION**



**OUTPUT FORCING AND DIAGNOSTICS**

The **RHT-P10** and **RHT-XS** 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, they can be configured using the **TxConfig-USB** communication interface and the **SigNow** app or software, which is available for Android and Windows. The outputs can be configured to retransmit temperature, relative humidity, or dew point.

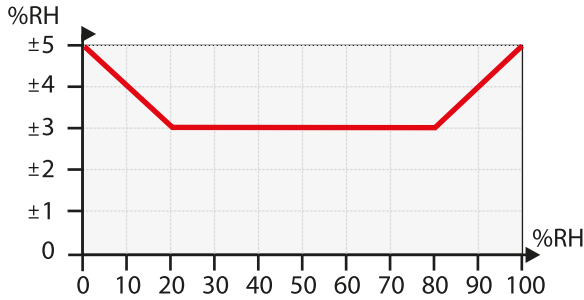
The **RHT-P10** model is suitable for monitoring temperature and relative humidity in pressurized environments and vacuum chambers. The sensor module has a metal body with a thread, suitable for fixing to a flange.

The model is suitable for applications where the sensor module needs to be separate from the electronic module, but in the same pressure environment.

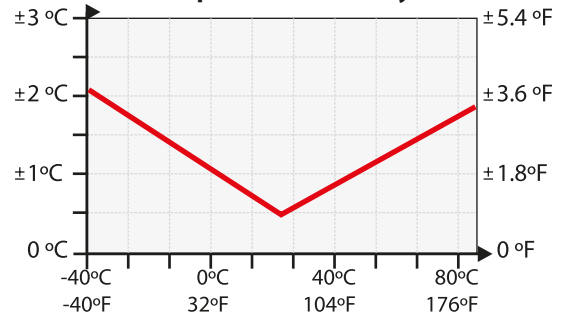
\* The flange for **RHT-P10** is not included with the transmitter and must be purchased separately.

# Measurement Accuracy and Sensor Operating Limits

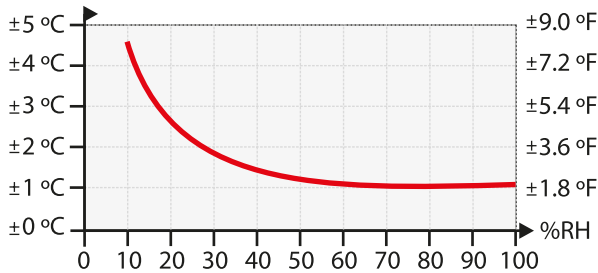
**Relative Humidity Accuracy @25°C**



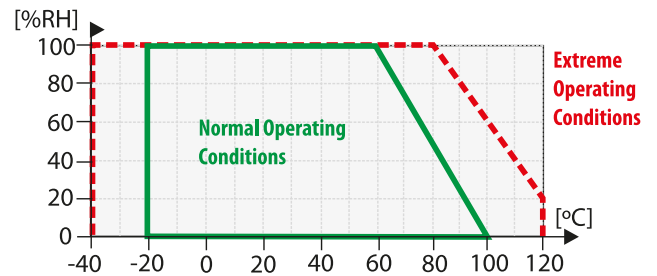
**Temperature Accuracy**



**Dew Point Accuracy @25°C**



**Humidity sensor operating conditions**



## Technical Specifications



	RHT-P10	RHT-XS
<b>Humidity Measurement</b>	Configurable between 0 and 100 % RH	
<b>Temperature Measurement</b>	Configurable between -40 and 120 °C	
<b>Dew Point Measurement</b>	Configurable between -100 and 103 °C	
<b>Outputs</b>	4-20 mA or 20-4 mA, 2-wire type	4-20 mA model: 4-20 mA or 20-4 mA, 2-wire type 0-10 Vdc model: 0-10 Vdc / 2 mA max.
<b>OUT1 and OUT2 Resolution</b>	0.0008 mA	4-20 mA model: 0.0008 mA 0-10 Vdc model: 0.003 V
<b>Output Isolation</b>	4-20 mA isolated outputs	4-20 mA model: Isolated outputs 0-10 Vdc model: No isolation
<b>Operating Limits</b>	Maximum pressure difference: 10 bar (145 psi)	-
<b>Probe Material</b>	SS316	Polyethylene (PE)
<b>Process Thread Types</b>	1/2" BSP, 1/2" NPT	-
<b>Cable Length</b>	3 m	
<b>Protection Index</b>	Electronic module housing: IP65 Sensor housing: IP40	
<b>Certifications</b>	CE Mark	
<b>Internal Protection Against Reversal Polarity of Voltage Supply</b>		