



- / High accuracy readings
- Wide backlight display
- Configurable analog outputs
- Settings via USB or keypad
- Alarm output and built-in buzzer

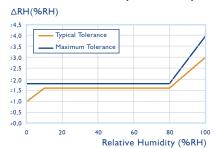
The RHT Climate transmitter incorporates high accuracy and stability sensors for relative humidity and temperature measurement and can transmit both signals through two analog outputs or RS485 Modbus RTU communication. The device allows complete parameters configuration through the USB interface, simulation of temperature and humidity, forcing the retransmission signals or even diagnostics through NXperience software. RHT Climate has models with or without display for wall or duct mount, with various probe lengths.

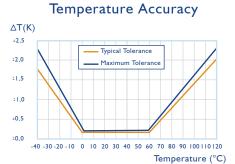
Typical Applications

RHT Climate is suitable for general use in HVAC-R applications, that is, monitoring or climate control of environments or even environmental monitoring of industrial processes where robustness, accuracy and connectivity are required.

Accuracy of Measures and Operational Limits of Sensors

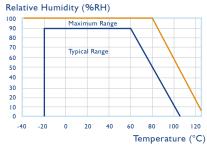
Relative Humidity Accuracy





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Sensor Operation Conditions



The RHT Climate can be configured to display and retransmit the temper or any of its psychrometric properties, calculated in real time:

- Dew Point Temperature
- Wet Bulb Temperature
- Absolute Humidity
- Frost Point Temperature







Technical specifications

Sensor Measurement Range:	Temperature:	-40,0 °C to 100,0 °C (DM models) -40,0 °C to 60,0 °C (WM models)			
	Relative Humidity:	0.0 to 100.0% RH (non-condensing)			
	Dew Point:	-90,0 °C to 100,0 °C			
Measurement Resolution:	Temperature:	0,1 °C, 14 bits (65535 levels)			
	Relative Humidity:	0,1%, 12 bits (4095 levels)			
Response Time:	Temperature:	up to 5 s @ 25 °C with slow moving air (1 m/s)			
	Relative Humidity:	up to 4 s @ 25 °C with slow moving air (1 m/s)			
Typical Accuracy:	Temperature:	± 0,4 °C (0 °C to 60 °C)			
	Relative Humidity:	± 1.8 % RH to 23 °C (0 % to 90 % RH)			
Sampling Interval:	3 seconds				
Custom Calibration:	Up to five temperature points and five points for relative humidity				
Analog Outputs:	Two 0-10 V or 4-20 mA outputs configurable by software or keyboard				
Power Supply:	By Connectors:	12 Vdc to 30 Vdc; maximum consumption 70 mA +/- 10% @ 24 Vdc			
	By USB:	4.75 Vdc to 5.25 Vdc			
Display:	Wide backlight LCD with three variables of 4 1/2 digits				
Keys:	3 keys with tactile feedback for navigation and adjustment of parameters				
Alarms:	Two digital outputs and one embedded buzzer				
Operating Temperature:	-40 °C to 60 °C				
Connections:	Internal terminals through cable glands				
Dimensions:	100.3 x 80.0 x 45.1 mm				
Enclosure:	ABS+PC				
Protection Rating:	Enclosure:	IP65			
	Sensor probe:	IP30, depending on the filter cap			
Communication Interface:	USB type Micro-B 2.0 and RS485 (both in Modbus RTU)				
Programming:	NXperience software for Windows through USB				

Models

Part Number	USB	Two Analog Out	Alarm Digital Out	Stainless Steel Probe (mm)	LCD	RS485	
880400000	\checkmark	\checkmark	\checkmark				
8804000101	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark	
8804111000	\checkmark	\checkmark	\checkmark	150 mm			
8804111001	\checkmark	\checkmark	\checkmark	150 mm		\checkmark	
8804111101	\checkmark	\checkmark	\checkmark	150 mm	\checkmark	\checkmark	
8804121000	\checkmark	\checkmark	\checkmark	250 mm			Ä
8804121001	\checkmark	\checkmark	\checkmark	250 mm		\checkmark	mate -
8804121101	\checkmark	\checkmark	\checkmark	250 mm	\checkmark	\checkmark	RHT Clin
8804131000	\checkmark	\checkmark	\checkmark	400 mm			FL. R
8804131001	\checkmark	\checkmark	\checkmark	400 mm		\checkmark	527 -
8804131101	\checkmark	\checkmark	\checkmark	400 mm	\checkmark	\checkmark	20190527

