## Relative Humidity and Temperature Transmitters

### Wireless Relative Humidity and Temperature Transmitter

RHT Air is a wireless relative humidity and temperature transmitter which operates over long distances and allows configuration and parameters reading over a wireless network within 500 m distance. It has a long operating battery life combined with the convenience of a wireless sensor that avoids electrical noise susceptibility ensuring a robust and secure solution. Operation without cables or wires simplifies installation and relocation of devices. RHT Air operates on its own wireless network and works independently from the company's IT infrastructure.

- Relative humidity and temperature measurement over long distances
- Independent industrial wireless network
- Long operating battery life
- · Easy network scalability
- Noise immunity



# Wall mounting RHT RHT ROYUS NOVUS NOVUS NOVUS NOVUS

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	RHT WM	RHT WM 485 LCD	RHT XS	RHT P10	RHT Air	
Input Type	Integrated RHT probe		Extended RHT probe (3 m cable)	Extended RHT probe (flange mounting) (3 m cable)	Integrated RHT probe	
Measurement Range	Temperature: -10 to 65 °C (14 to 149 °F) Humidity: 0 to 95% RH	Temperature: -40 to 70 °C (-40 to 150 °F) Humidity: 0 to 95% RH	Temperature: -40 to 120 °C (-40 to 248 °F) Humidity: 0 to 100% RH		Temperature: -10 to 70 °C (14 to 158 °F) Humidity: 0 to 95% RH	
Accuracy	Temperature: $\pm$ 2 °C (3.6 °F) RH: $\pm$ 3 % (20 - 80% RH) and $\pm$ 5 % (0 - 100% RH)					
Analog Output Type	4-20 mA or 0-10 V	-	4-20 mA or 0-10 V		-	
Advanced Functions	Dew point retransmission	Dew point indication	Dew point retransmission		Battery level dew point indication	
Communication	Through TxConfig adapter	RS485 Modbus RTU	Through TxConfig adapter		USB mini-B type NOVUS Air (IEEE 802.15.4)	
Approvals		Anatel (0172-13-7089) FCC and CE				
Operating Conditions (Housing)	-10 to 65 °C (14 to 149 °F) 0 to 95% RH	-40 to 70 °C (-40 to 150 °F) 0 to 95% RH		(14 to 149 °F) 5% RH	-10 to 70 °C (14 to 158 °F) 0 to 95% RH	
Power Supply	12-30 Vdc (18-30 Vdc)	12-30 Vdc		0 Vdc 0 Vdc)	12-30 Vdc or Replaceable 3.6 V Lithium battery	
Ingress Protection		IP40				



### High Accuracy Relative Humidity and Temperature Transmitter

RHT Climate relative humidity and temperature transmitter provides highly accurate and stable measurements and transmits both signals via two independent analog outputs and the RS485 Modbus RTU communication. The RHT Climate is fully USB configurable through its free NXperience software which also performs diagnostics and input/output simulation, installation and comissioning tasks.

**RHT Climate** is available with or without LCD display for duct or wall mounting with different probe lengths.

- High accuracy measurement
- · Large display with backlight
- Configurable analog outputs
- Configuration via USB or front keys
- Alarm outputs and buzzer



#### **Duct Mounting**









RHT Climate WM	RHT Climate WM LCD	RHT DM	RHT DM 485 LCD	RHT Climate DM	RHT Climate DM LCD	
Integrated RHT probe		Integrated RHT probe (options: 150, 250, and 400 mm)				
Temperature: -40 to 60 °C (-40 to 140 °F) Humidity: 0 to 100% RH		Temperature: -40 to 120 °C (-40 to 248 °F) Humidity: 0 to 100% RH	Temperature: -40 to 100 °C (-40 to 212 °F) Humidity: 0 to 100% RH			
Temperature: $\pm$ 0.2 K (0 to 60 °C) (32 to 140 °F); Humidity: $\pm$ 1.8 % RH and 23 °C (0 - 90 % RH)		Temperature: ± 2 °C (3.6 °F) RH: ± 3 % (20 - 80% RH) and ± 5 % (0 - 100% RH)	Temperature: ± 2 °C (3.6 °F) RH: ± 3 % (20 - 80% RH) and ± 5 % (0 - 100% RH)	Temperature: $\pm$ 0.2 K (0 to 60 °C) (32 to 140°F); Humidity: $\pm$ 1,8 % RH and 23 °C (0 - 90 % RH)		
4-20 mA or 0-10 V (10-0 V)		4-20 mA	-	4-20 mA or 0-10 V (10-0 V)		
Psychrometric properties, alarm buzzer, 2 digital outputs, maximum and minimum values, simulation of inputs, simulation of outputs, custom calibration and front keys (LCD version only)		Dew point retransmission	Dew point indication	Psychrometric properties, alarm buzzer, 2 digital outputs, maximum and minimum values, simulation of inputs, simulation of outputs, custom calibration and front keys (LCD version only)		
USB Micro-B Type and RS485 Modbus RTU		Through the TxConfig adapter	RS485 Modbus RTU	USB Micro-B Type and RS485 Modbus RTU		
CE		CE				
-40 to 60 °C (-40 to 140 °F) 0 to 95% RH		-10 to 65 °C (14 to 149 °F) 0 to 95% RH	-40 to 70 °C (-40 to 158 °F) 0 to 95% RH	-40 to 60 °C (-40 to 140 °F) 0 to 95% RH		
12-30 Vdc		12-30 Vdc (18-30 Vdc)	12-30 Vdc			
Housing: IP65 Probe: IP30 or IP40		Housing: IP65 Probe: IP40		Housing: IP65 Probe: IP30 or IP40		