

HUMIDITY AND TEMPERATURE TRANSMITTERS

Selection Guide



WALL MOUNT TYPE

DUCT MOUNT TYPE

		WALL MOUNT TYPE				DUCT MOUNT TYPE							
		RHT-WM	RHT-WM-485-LCD	RHT-XS	RHT-P10	RHT-Air	RHT Climate WM	RHT Climate WM LCD	RHT-DM	RHT-DM-485-LCD	RHT Climate DM	RHT Climate DM LCD	
Input Type		RHT integrated probe				RHT extended probe (3 m cable)	RHT extended probe for flange mount (3 m cable)	RHT integrated probe				RHT integrated probe (Length Options: 150, 250 and 400 mm)	RHT integrated probe (Length Options: 150, 250 and 400 mm)
Measurement Range	Temperature	-40 to 120 °C	-40 to 100 °C	-40 to 120 °C		-40 to 100 °C	-40 to 60 °C		-40 to 120 °C	-40 to 100 °C	-40 to 100 °C		
	Humidity	0 a 100% RH				0 a 100% RH		0 a 100% RH		0 a 100% RH		0 a 100% RH	
Measurement Accuracy	Temperature	±2 °C				±2 °C		±0.2 °C (0-60 °C)		±2 °C		±0.2 °C (0-60 °C)	
	Humidity	±3% (20-80 °C) and ±5% (0-100 °C)				±3% (20-80 °C) and ±5% (0-100 °C)		±1.8% (0-90%) and ±4% (0-100%)		±3% (20-80 °C) and ±5% (0-100 °C)		±1.8% (0-90%) and ±4% (0-100%)	
Measurement Resolution	Temperature	0.1 °C (14 bits)				0.1 °C (14 bits)		0.1 °C (14 bits)		0.1 °C (14 bits)		0.1 °C (14 bits)	
	Humidity	0.1% (12 bits)				0.1% (12 bits)		0.1% (12 bits)		0.1% (12 bits)		0.1% (12 bits)	
Analog Outputs		4-20 mA (20-4 mA)		4-20 mA			4-20 mA (20-4 mA) or 0-10 V (10-0 V)		4-20 mA (20-4 mA)		4-20 mA (20-4 mA) or 0-10 V (10-0 V)		
Analog Output Resolution		OUT1: 0.006 mA OUT2: 0.022 mA		OUT1: 0.006 mA OUT2: 0.022 mA			0.006 mA or 0.003 V		OUT1: 0.006 mA OUT2: 0.022 mA		0.006 mA or 0.003 V		
Response Time	Temperature	30 s				30 s		5 s		30 s		5 s	
	Humidity	8 sec (air speed 1 m/s)				8 sec (air speed 1 m/s)		4 sec (air speed 1m/s)		8 sec (air speed 1m/s)		4 sec (air speed 1m/s)	
Isolation		4-20 mA isolated		4-20 mA isolated					4-20 mA isolated				
Display			LCD with 2 indications			LCD with 2 indications		Backlight LCD with 3 indications		LCD with 2 indications		Backlight LCD with 3 indications	
Advanced Functions		Dew Point	Dew Point indication	Dew Point	Dew Point	Battery Level Dew Point indication	Psychrometric Properties, Buzzer for Alarm, 2 Alarm Outputs, Max and Min Values, Input Simulation, Output Simulation, Custom Calibration	Psychrometric Properties, Buzzer for Alarm, 2 Alarm Outputs, Max and Min Values, Input Simulation, Output Simulation, Custom Calibration, Frontal Keys	Dew Point	Dew Point indication	Psychrometric Properties, Buzzer for Alarm, 2 Alarm Outputs, Max and Min Values, Input Simulation, Output Simulation, Custom Calibration		
USB Configuration		by TxConfig adapter		by TxConfig adapter		internal Micro-B type	Micro-B type		by TxConfig adapter		Micro-B type		
Communication Interface			RS485 Modbus RTU			IEEE 802.15.4	Optional RS485 Modbus RTU			RS485 Modbus RTU	Optional RS485 Modbus RTU		
Configuration Software		TxConfig	DigiConfig	TxConfig		DigiConfig	NXperience		TxConfig	DigiConfig	NXperience		
Certifications		CE		Anatel / FCC		CE	CE		CE		CE		
Operating Conditions (Enclosure)		-10 to 65 °C 0 to 95% RH	-40 to 70 °C 0 to 95% RH	-10 to 65 °C, 0 to 95% RH		-10 to 70 °C 0 to 95% RH	-40 to 60 °C, 0 to 95% RH		-10 to 65 °C 0 to 95% RH	-40 to 70 °C 0 to 95% RH	-40 to 60 °C, 0 to 95% RH		
Power Supply		12-30 Vdc	12-30 Vdc	12-30 Vdc		12-30 Vdc or 3.6 V Lithium Battery	12-30 Vdc		12-30 Vdc	12-30 Vdc	12-30 Vdc		
Dimensions	Box	70 x 60 x 35 mm				70 x 60 x 35 mm		100 x 80 x 45 mm		70 x 60 x 35 mm		100 x 80 x 45 mm	
	Probe size	39 mm		124 mm	½" NPT Ø 75 mm		39 mm	52 mm		150, 250 and 400 mm		150, 250 and 400 mm	
Protection Rating		Box IP65, Probe IP40				IP40		Box IP65, Probe IP40 (PTFE) or IP20 (Polyamide)		Box IP65, Probe IP40		Box IP65, Probe IP40 (PTFE) or IP20 (Polyamide)	