

The CRW4- Series (H&T) is designed to measure humidity and temperature in rooms or areas

The sensor operates with low voltage power supply

In accordance with RESET® and WELL Building Standard™.

Reading / Parameter settings via NFC technology

With Operation LED - optional with ePaper display available

Product Designed in accordance to CE and UL standards

The sensor outputs are active, optional with passive temperature output



Use	Compatible to all common HVAC DDC and Analog Controls systems, with/without BA Systems Humidity & Temperature measuring in rooms and areas Used in all common HVAC applications Used in Commercial and Industrial Buildings
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Features	Sensor with active output, optional with passive temperature output Sensor outputs 0-10V or 4-20mA, optional with passive temperature output With Operation LED - optional with ePaper display available Reading /Parameter settings via NFC technology Modern and practical product design Firmware updates via USB-C connection Easy to use, install and maintain
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Product Range	Order Codes	General Parameters				Temperature Parameters				Humidity Parameters			
		Power Supply	Display	Active Outputs	IP Rating	Meas. Range	Accuracy active	Passive Outputs	Accuracy Passive	Accur- acy	Measuring Range / Unit		
	CRW4G.GA	AC/DC 24V (±10%)	ePaper display 31x60mm	0~10V	IP 20	0°~50°C (default) -40°C~+135°C via NFC adjustable	± 0.2C between 0°C~+50°C	n.a		± 2%, Full Scale	rel. humidity (default)	0~100%	selectable via NFC
	CRW4G.FA		n.a										
	CRW4G.FK		none					PT1000	± 0.15K @ 0°C		absolute humidity	0~50gr/m3	
	CRW4G.FM							NTC10k	± 0.25K @ 25°C				
	CRW4G.GD	ePaper display 31x60mm	4~20mA	n.a		dew point	20~80°C						
	CRW4G.FD	none		n.a									
	CRW4G.FQ			PT1000	± 0.15K @ 0°C	enthalphy	0~85kJ/Kg						
	CRW4G.FS			NTC10k	± 0.25K @ 25°C								

Sensor Specification	Sensor Specification	Measured	Humidity / Temperature	
		Sensor Characteristics	Active, optional passive Temperature	
		Sensor Output (s)	0-10V or 4-20mA	
		Output Load		
		0-10V output	Min. load 5kΩ @ AC/DC 24V	
		4-20mA output	Max. load 700Ω @ DC 24V	
		Temperature (active)	Accuracy	± 0.2C between 0~50°C
			Response time	t _{63%} 2s
			Long Term Drift	<0.03°C/Y
			Default Measuring Range	0°C~50°C
			Optional Measuring Range	Free selectable via NFC -40~+135°C
		Temperature (passive)	Accuracy PT- Sensors	± 0.15K @ 0°C DIN EN 60751, class A
			Accuracy NTC- Sensors	±0.25K @ 25°C
		Humidity	Accuracy	typically ±2% RH
			Repeatability	average 0.15% RH
			Long Term Drift	<0.25 & RH / y
			Measuring Value (default)	Relative Humidity / 0~100%
			Optional Measuring Value	absolute humidity / 0~50gr/m3
		Dew Point / -20~80°C		
		Enthalpy / 0~85kJ/Kg		
Technical Information	Electrical Information	Power Supply	AC/DC 24V (±10%)	
		Frequency	50 / 60 Hz at AC 24V	
		Terminal Clamp	Screw terminal, max. 1.5mm²	
		Power Consumption		
		0-10V output	≤ 1W	
	Mechanical Information	4-20mA output (2 wire)	≤ 1W	
		Cable Entry	~50mm x 10mm on the backside	
		USB C	Bootloader for software updates	
		Display	ePaper 31x60mm	
	Colour and Materials	Housing Cover	ABS, white	
		Housing Bottom	ABS, white	
		Flammability Standard	UL94class HB ; IEC 6070 ; ISO 9770	
	Environmental Conditions	Operation Temperature	-25°C~+70°C	
		Operation Humidity	100% RH, with condensation	
		Transport Temperature	-35°C~+70°C	
		Transport Humidity	< 90% RH	
		Storage Temperature	-10°C~+70°C	
	Norms and Directives	Storage Humidity	< 85% RH, no condensation	
		IP- Rating	IP20 to IEC60529	
		Safety Class	III to EN 60 730	
		Product Standard 1	Automatic EC for household and similar use	
		Product Standard 2	2009/EN 60 730-1	
		CE Conformities to	2004/108/EG Electromagnetic Compatibility EMV	
		CE ECE Interference	2000/EN60730-1 Emitted Interference	
		CE ECI Resistance	2000/EN60730-1 Interference Resistance	
		RoHS Compatibility	RoHS 3, Directive 2015/863	
		Operation Climatic Condition	IEC 60 721-3-3	
		Operation Mechanical Condition	IEC 60 721-3-2 to class2M2	
		Transport to Climatic Condition	IEC 60 721-3-2	
		Transport Mechanical Condition	IEC 60 721-3-2 to class2M2	
		Storage Climatic Condition	IEC 60 721-3-1	
		Storage Mechanical Condition	IEC 60 721-3-1 to class2M2	
Misc.	Shipping & Handling	Minimum Order	1 box with 1 piece	
		Packaging	Rigid Cardboards Packaging	
	Order Notes	Order Code	e.g. CRW4G.GA	

All Information and technical data are subject to alteration

