2120e

Product Information

CRW5- Series (CO2&H&T)

Air Quality (CO2), Humidity and Temperature Room Active Sensor



The CRW5-Series (CO2&H&T) is designed to measure air quality, humidity and temperature in rooms and areas. The air quality is measured based on CO2 levels (CO2= Carbon dioxide). The air quality sensor output and humidity are active, the temperature sensor output can be active or passive. Optional with display is available.



Use

Compatible to all common HVAC DDC and Analog Controls systems, with/without Building Automation System

Air quality (CO2), humidity and temperature measurement in rooms and areas

Used in all common HVAC applications

Used in Commercial and Industrial Buildings

Features

Sensor with active outputs

With self Calibration ABClogic

Professional and practical product design, withstands rough environmental conditions

Easy to use, install and maintain

Product Range

	Sensor Output			D:1	
	CO2 Humidity Temperature		Temperature	Display	
Model	0-10V	0-10V	0-10∨	PT100 PT1000 NTC10k NTC10k Pre NTC20k Ni1000	LCD
CRW5.FB	•	•	•		
CRW5.HB	•	•	•		•
CRW5.FJ	•	•	•	•	
CRW5.FK	•	•	•	•	
CRW5.FM	•	•	•	•	
CRW5.FO	•	•	•	•	
CRW5.FN	•	•	•	•	
CRW5.FL	•	•	•	•	

	Sensor Specification	Measured	Temperature & Humidity & Gas CO2
		Sensor Characteristics	Active; Passive
		Sensor Output (s)	See Product Range, Page 1
Sensor Specification		Output Load	Max. 10mA @ AC/DC 24V
		Accuracy Type CRW5.FB/HB	+ 0.8°C over full measuring range: ±29/ within 10 009/
			± 0.8°C over full measuring range; ±2% within 1090% r.h.; ±40ppm + 4% (at 21°C)
		Type CRW5.FJ/FK	\pm 0.8°C over full measuring range; \pm 0.3K @ 0°C; \pm 2% within 1090% r.h.; \pm 40ppm + 4% (at 21C)
		Type CRW5.FM/FO/FN	\pm 0.8°C over full measuring range; \pm 0.5K @ 25°C; $\pm 2\%$ within 1090% r.h.; ± 40 ppm + 4% (at 21°C)
		Type CRW5.FL	\pm 0.8°C over full measuring range; \pm 0.4K @ 0°C; $\pm2\%$ within 1090% r.h.; ±40 ppm + 4% (at 21°C)
		Temperature Dependency CO2	<0.2% FC /℃
		Repeatability CO2	<1% FS
		Stability CO2	2% FS
		Calibration	not required
		Measuring Range (s)	0°C50°C Active / -40°C150°C Passive / 0100% r. 02000ppm
		Pasive Sensor	See Product Range, Page 1
	Electrical Information	Power Supply	DC 15-24V (±10%) or AC 24V (±10%)
		Frequency	50 / 60 Hz at AC 24V
		Terminal Clamp	Screw terminal, max. 1.5mm²
	Machanical Information	Power Consumption	24V; 3W / 6VA
	Mechanical Information	Cable Entry Sensing Element Position	~30mm x 10mm on the backside
	User Interface	Sensing Element Position	Inside the housing, top of the housing
	User Interface	Display Type CRW5.HB	LCD
	Color and Materials	Type CRW5.HB Housing Cover	White ASA, RAL 9010 (Pure White)
	Solo and Materials	Housing Bottom	White ASA, RAL 9010 (Pure White)
_	Environmental Conditions	Operation Temperature	-25°C+70°C
<u>ō</u>		Operation Humidity	<85% r.h., no condensation
ıat		Transport Temperature	-35°C+70°C
ıform		Transport Humidity	< 90% r.h.
		Storage Temperature	-10°C+70°C
≣		Storage Humidity	< 85% r.h., no condensation
<u>:8</u>	Norms and Directives	IP- Rating	IP20 to IEC60529
Technical Information		Safety Class	III to EN 60 730
		Product Standard 1	Automatic Electric. Controls for household and similar use
		Product Standard 2	2009/EN 60 730-1
		CE Conformities to	2004/108/EG Electromagnetic Compatibility EMV
		CE Electromagnetic Compatibility Emitted Interference	2000/EN60730-1 Emitted Interference
		CE Electromagnetic Compatibility Interference resistanc	
		RoHS Compatibility	RoHS 2011/65/EC
		Operation Climatic Condition	IEC 60 721-3-3 IEC 60 721-3-2 to class2M2
		Operation Mechanical Condition Transport to Climatic Condition	IEC 60 721-3-2
		Transport to Climatic Condition Transport Mechanical Condition	IEC 60 721-3-2
		Storage Climatic Condition	IEC 60 721-3-1
		Storage Mechanical Condition	IEC 60 721-3-1 to class2M2
	Terminal Connection	<u> </u>	
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၁၅		GND/AC2 UB +24V/AC1 10V Out Femp 0 10V	Sensor A-
Connection		5 3 5 5	ő i ő i
ŭ		CRW5.FB/HB C	RW5.FJ/FK/FM/FO/FN/FL
	Accessories	Accessory not included in delivery	TRA0.A (106mmx106mm backplate)
Miscellanies	A COCCOSONICO	Accessory not included in delivery	Traca (Tooliilla Tooliilli backpiate)
	Shipping & Handling	Minimum Order	1 box with 1 piece
		Product Dimension (L x W x H) / Weight	85mm x 85mm x 26mm / 90gr.
		Transport and Storage dimension (L x W x H) / Weight	90mm x 90mm x 35mm / 110gr.
		Package Material	Rigid Cardboards Packaging
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Misc	Order Notes	Order Code	See Product Range, Page 1, e.g. CRW5.FB

