



HCRW5

Room Air Quality (CO2) and **Temperature Sensor with** active outputs

- ROOM MOUNT COMBINED TEMPERATURE & CO2 SENSOR.
- MODERN DESIGN & NEUTRAL COLOUR
- EASY CALIBRATION WITH TRIM POTS FOR BOTH TEMPERATURE & CO2.
- 15-24v AC/DC POWER SUPPLY, 0-10V IN REFERENCE TO NEUTRAL.
- STANDARD OUTPUTS: TEMP. 0-10v = 0-50c / CO2 0-10v = 0-2000ppm.
- MODEL ALSO AVAILABLE WITH LCD DISPLAY HCRW5-LCD

The HCRW5 is a combined wall mount room Temperature & Air Quality (CO2 based) sensor, producing 0 to 10 volt DC signals proportional to 0 to 50 celsius & 0-2000 ppm CO2. Typically used in conjunction with an electronic Zone temperature controllers as per the Hevac ENDEAVOUR controller which has dedicated inputs to respond to both temperature & air quality 0-10vdc output signals, for typical control of reverse cycle package A/C units, fan coil units or Air Handling units c/w with Economy Cycles.



100% Australian Owned Company

05/08/19

	Sensor Specification	Measured	Temperature & Gas CO2
		Sensor Characteristics	Active
		Sensor Output (s)	0-10vDC in reference to c⁴{ ∄ क्यंकि
		Output Load	Max. 10mA @ AC/DC 24V
ation		Measuring Current	<1mA/************************************
		Accuracy	± 0.3K @ 0°C DIN EU 60751 ; ±40ppm + 4% (at 21C)
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bec		Temperature Dependency CO2	<0.2% FC / C
Sensor Specification		Repeatability CO2	<1% FS
		Stability CO2	2% FS
		Calibration	not required
		Measuring Range (s)	0°C+50°C Active / -40°C+150°C Passive / 02000ppm
	Electrical Information	Power Supply	DC 15-24V (±10%) or AC 24V (±10%)
		Frequency	50 / 60 Hz at AC 24V
		Terminal Clamp	Screw terminal, max. 1.5mm ²
		Power Consumption	24V; 3W / 6VA
	Mechanical Information	Cable Entry	~30mm x 10mm on the backside
		Sensing Element Position	Inside the housing, top of the housing
	User Interface	LCD	see Product Range, Page 1
	Color and Materials	Housing Cover	White ASA, RAL 9010 (Pure White)
		Housing Bottom	White ASA, RAL 9010 (Pure White)
	Environmental Conditions	Operation Temperature	-25°C+70°C
u		Operation Humidity	<85% r.h., no condensation
ă.		Transport Temperature	-35°C+70°C
Ĕ		Transport Humidity	< 90% r.h.
<u>=</u>		Storage Temperature	-10°C+70°C
chnical Information		Storage Humidity	< 85% r.h., no condensation
⋛	Norms and Directives	IP- Rating	IP20 to IEC60529
Φ		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 resistance	2000/EN60730-1 Interference Resistance
		RoHS Compatibility	RoHS 2011/65/EC
		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
	Accessories	Accessory not included in delivery	TRA0.A (106mmx106mm backplate)
S	Shipping & Handling	Minimum Order	1 box with 1 piece
anie E	Companie & Francisco		
e E		Product Dimension (L x W x H) / Weight	85mm x 85mm x 26mm / 90gr.
Miscellanies		Transport and Storage dimension (L x W x H) / Weight	90mm x 90mm x 35mm / 110gr.
<u>.s</u>		Package Material	Rigid Cardboards Packaging
Z Z	Order Notes	Order Code	See Product Range, Page 1, e.g. CRW5.CJ

Installation Notes



Observe the following general regulation for engineering and implementation:

All relevant national and heavy power regulation

Other country specific regulations

Country-specific regulations

Local electrical supply authority regulation

Schematics, cable listings, dispositions, specification and arrangements from the customer or engineering office in charge

Third party specifications, e.g. general contractors or constructors

Mounting Advices



Advices









Under normal environmental conditions we recommend a recalibration interval of 2 year to maintain the indicated accuracy.

Refrain from touching the sensitive sensor. Any touch of the same will result in an expiration of the warranty.

At high ambient temperatures and high humidity, or when use the sensor in aggressive gases,

an early recalibration or a change of the sensor can become necessary.

Such a recalibration or a probable sensor change may not come under the general warranty

Disposal Notes

The device is considered an electronic device for disposal in terms of the EUROPEAN DIRECTIVE 2012/19/EU.

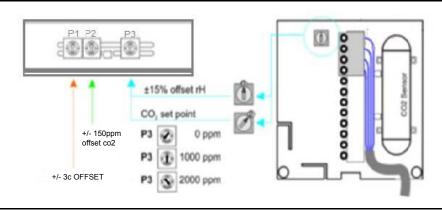


The Device may not be disposed as domestic garbage.

The device must be disposed through channels provided for this purpose.

It is mandatory to comply with local currently applying laws and regulations.

Connections & Settings



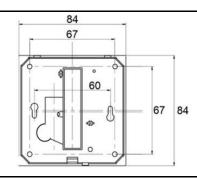
Connection

Terminal Connection

1	2	3	4
GND	24V AC/DC	Out Temp 010V	Out CO2 010V

Dimensional Drawing

84,5



All Information and technical data are subject to alteration

TYPICAL CONNECTION OF HCRW5 TO HEVAC ENDEAVOUR CONTROLLER

