




SRD2-THC Sensors



22.0 °C
43.7 %RH
 

25.1 °C
38.6 %RH
763 ppm

25.1 °C
38.6 %RH
763 ppm
92.4 %AQI

1
22.0 °C
23.0 °C
  

22.0 °C
38.6 %RH
763 ppm

FEATURES

- Indoor Temperature Monitoring
- Indoor Humidity Monitoring
- Indoor CO2 Monitoring
- Onboard Display Option Available
- VOC & Dust Particles Option Available
- Automatic Speed Control Of Fresh Air Fan
- Automatic Modulation Of Fresh Air Damper
- Adjustable CO2 Setpoint
- High Quality Product
- Install Option Available



Indoor Air Quality SRD2-THC sensors

SRD2-THC Sensors

Technical specifications		SRD2-THC	
Power supply	Power requirements	24 VAC \pm 10%, 50/60 Hz, 15...34 VDC SELV to HD 384, Class II, 48VA max	
	Power consumption	Max. 5 VA	
	Electrical connection	Screw terminal connectors for wire 0.52...1.3 mm ² (AWG 20...16)	
Built-in sensors (Type)	-TH	Temperature sensor	Bandgap sensor
		Range	0...50 °C (32...122 °F)
		Measuring accuracy	See Figure 2 in section Sensors
		Repeatability	\pm 0.1°C (\pm 0.2°F)
		Humidity sensor	Capacity sensor element
	Range	0...100% RH	
	Measuring accuracy	See Figure 1 in section Sensors	
	Hysteresis	\pm 1%	
	Repeatability	\pm 0.1%	
	Stability	< 0.5% / year	
	-C	CO2 sensor	Photoacoustic sensor technology PASens® with automatic calibration in the background (ASC)
		Response time (63%)	1 minute
		Measuring range	0 - 2000 ppm vol.
		Repeatability	\pm 10 ppm typical
		Accuracy	\pm 50 ppm + 5% of measured value
Pressure dependence	- 1.6% reading per kPa deviation from normal pressure (100 kPa)		
-IR	Passive infrared sensor PIR	Motion detection	
	Detection angle	120° horizontal and vertical	
	Detection range	5.0m max., horizontal and vertical	
Signal Input	Passive input RT/DI	UI8, resistive temperature sensor NTC or DI open	
	Passive temperature	contact NTC (Sxx-Tn10) 10kΩ@25°C	
	Range	40...100 °C (-40...212 °F)	
Signal outputs	Relay outputs SPDT):	AC Voltage	0...48 VAC, full-load current 1A
		DC Voltage	0...30 VDC, full-load current 1A
	Insulation strength between relays		
	contacts and system electronics:		500 VAC to EN 60 730-1
between neighbouring contacts:		500 VAC to EN 60 730-1	

SRD2 Range Available

V-SRD2-THC	Wall Mount Sensor with Temp, Humidity & CO2 no Display
V-SRD2-THC OPIR	Wall Mount Sensor with Temp, Humidity & CO2 with Display & PIR Sensor
V-SRD2-THC MOD (no display)	Wall Mount Sensor with Temp, Humidity & CO2, no Display + Modbus Comms
V-SRD2-THC OPIR-MOD	Wall Mount Sensor with Temp, Humidity & CO2 with Display, PIR + Modbus Comms
V-SRD2-THC OPIR-BAC	Wall Mount Sensor with Temp, Humidity & CO2 with Display, PIR + Bacnet Comms
V-SRD2-THC OPIR-WIM	Wall Mount Sensor with Temp, Humidity & CO2 with Display, PIR + Wifi Modbus
V-SRD2-THC OPIR-WIB	Wall Mount Sensor with Temp, Humidity & CO2 with Display, PIR + Wifi Bacnet

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