

SC-RC

Smart Networkable Controllers



These are specifically designed for straightforward and accurate control of heat pump, rooftop unit, fan coil units (2 or 4-pipes) or any other heating/cooling equipment or humidity control. Its field-configurable algorithms allow for versatility when implementing required control sequences.

FEATURES:

- Heat pump, humidity control or general unit controller
- Fan control: 1, 2 or 3-speed (auto/on) or analog (EMC)
- Precise temperature control with configurable PI function
- Low limit set protection
- Occupancy and night set back mode

COMMUNICATION:

- Selectable BACnet or Modbus communication
- MAC address set via menu or network
- Copy & broadcast configuration to other controllers (BACnet only)
- BACnet scheduler (up to 6 events per day)
- Supports CVO (BACnet only)

Models	Temp.	RH	PIR
● SC-RC1-T-WG	•		
● SC-RC1-T-BB			
○ SC-RC1-T-WB			
● SC-RC1-RHT-WG	•	•	
● SC-RC1-RHT-BB			
○ SC-RC1-RHT-WB			
● SC-RC1-TPIR-WG	•		•
● SC-RC1-TPIR-BB			
○ SC-RC1-TPIR-WB			
● SC-RC1-RHT-PIR-WG	•	•	•
● SC-RC1-RHT-PIR-BB			
○ SC-RC1-RHT-PIR-WB			

SPECIFICATION

Supply voltage	24Vac	
Supply current	1VA (41.6mA @ 24Vac)	
Inputs	SC-RC1	2 Universal: 0-10Vdc, 10kΩ Thermistor or dry contact
	SC-RC2	4 Universal: 0-10Vdc, 10kΩ Thermistor or dry contact
Outputs	SC-RC1	5 Binary (OptoFET, 250mA max.) 2 Analog (0-10Vdc, adjustable)
	SC-RC2	6 Binary (OptoFET, 250mA max.) 4 Analog (0-10Vdc, adjustable)
Set point range	10 to 40°C	
Proportional band	0.5 to 5°C adjustable	
Dead band	0.0 to 5°C adjustable	
BACnet	MS/TP, 9600, 19200, 38400 or 76800	
Modbus	RTU slave, 9600, 19200, 38400 or 57600	
	Selectable parity & stop bits	
	No parity, 2 stop bit	
Accuracy	Temperature	±0.4°C (control)
	Humidity	±3.5%RH (control)
	CO ₂	±30ppm ±3% of reading
Ambient	Temperature	0 to 50°C
	RH	5 to 95% RH. non-condensing
Housing	Material	ABS
	Dimensions	24 x 83 x 20mm (without CO ₂) 24 x 83 x 24mm (with CO ₂)
Protection	IP30	
Weight	135g	

Note: Optional relay interface board available on request. 120Vac or 240Vac options @ 7A

Models	Temp.	RH	PIR	CO ₂	VOC
● SC-RC2-T-WG	•				
● SC-RC2-T-BB					
○ SC-RC2-T-WB					
● SC-RC2-RHT-WG	•	•			
● SC-RC2-RHT-BB					
○ SC-RC2-RHT-WB					
● SC-RC2-RHT-CO2-WG	•	•		•	
● SC-RC2-RHT-CO2-BB					
○ SC-RC2-RHT-CO2-WB					
● SC-RC2-T-PIR-WG	•		•		
● SC-RC2-T-PIR-BB					
○ SC-RC2-T-PIR-WB					
● SC-RC2-RHT-PIR-WG	•	•	•		
● SC-RC2-RHT-PIR-BB					
○ SC-RC2-RHT-PIR-WB					
● SC-RC2-RHT-CO2P-WG	•	•		•	•
● SC-RC2-RHT-CO2P-BB					
○ SC-RC2-RHT-CO2P-WB					
● SC-RC2-RHT-CO2PV-WG	•	•	•	•	•
● SC-RC2-RHT-CO2PV-BB					
○ SC-RC2-RHT-CO2PV-WB					