

Connected Room Solutions

SmartX IP Controllers – RP-C

The RP-C controllers are designed for fan coil, chilled beam and ceiling based systems. When used in combination with a variety of expansion modules, the controller can be used for state-of-the-art lighting and blind control. These scalable and secure BACnet IP-based room controllers enable connected room solutions. With an open IoT hub, it meets customers' future needs, including light and blind control and easy re-zoning. Also save time by managing commissioning conveniently with the SmartX eCommission Mobile App.



SmartX IP Controller – RP-C



SmartX IP Controller – RP-C
with external terminal cover

	RP-C-12A-F-24V	RP-C-12B-F-24V	RP-C-12C-F-24V	RP-C-16A-F-230V
Part Number	SXWRCF12A10001	SXWRCF12B10001	SXWRCF12C10001	SXWRCF16A10002
Communications				
Communication Interface	BACnet/IP, BTL B-AAC	BACnet/IP, BTL B-AAC	BACnet/IP, BTL B-AAC	BACnet/IP, BTL B-AAC
Software				
Programability	Function Block/Script Programmable	Function Block/Script Programmable	Function Block/Script Programmable	Function Block/Script Programmable
Physical				
Dimensions	180 W x 110 H x 64 D mm (7.1 W x 4.3 H x 2.5 D in.)	180 W x 110 H x 64 D mm (7.1 W x 4.3 H x 2.5 D in.)	180 W x 110 H x 64 D mm (7.1 W x 4.3 H x 2.5 D in.)	180 W x 110 H x 64 D mm (7.1 W x 4.3 H x 2.5 D in.)
Weight (including terminal blocks)	0.370 kg (0.816 lb)	0.390 kg (0.86 lb)	0.390 kg (0.86 lb)	0.720 kg (1.587 lb)
Power				
Power	24 VAC/DC	24 VAC/DC	24 VAC/DC	230 VAC
Consumption	23 VA	23 VA	23 VA	65 VA
Environmental				
Operating Range	0°C to 50°C (32°F to 122°F) -40°C to 60°C (-40°F to 140°F) for rooftop	0°C to 50°C (32°F to 122°F) -40°C to 60°C (-40°F to 140°F) for rooftop	0°C to 50°C (32°F to 122°F) -40°C to 60°C (-40°F to 140°F) for rooftop	0°C to 50°C (32°F to 122°F)
Internals				
CPU	ARM Cortex-A7 single-core	ARM Cortex-A7 single-core	ARM Cortex-A7 single-core	ARM Cortex-A7 single-core
On-board Bluetooth Low Energy	Yes	Yes	Yes	Yes
Battery	No	No	No	No
Real time clock	Yes -7 days	Yes -7 days	Yes -7 days	Yes -7 days
External Features				
Enclosure rating	UL94 5VB, Plenum rated, IP 20 (<12.5 mm protection)	UL94 5VB, Plenum rated, IP 20 (<12.5 mm protection)	UL94 5VB, Plenum rated, IP 20 (<12.5 mm protection)	UL94 5VB, IP 20 (<12.5 mm protection)
Manual Override of Outputs	No	No	No	No
Optional cover	Yes	Yes	Yes	Yes
Intelligent Sensors	SmartX Living Space Sensors	SmartX Living Space Sensors	SmartX Living Space Sensors	SmartX Living Space Sensors
Sensor Bus	Yes	Yes	Yes	Yes
Room Bus	Yes	Yes	Yes	Yes
Terminals				
I/O terminals	Screw terminals	Screw terminals	Screw terminals	Screw terminals
External Enclosure/Mounting				
Mounting	DIN-rail or wall mount	DIN-rail or wall mount	DIN-rail or wall mount	DIN-rail or wall mount
Certifications				
BTL	Yes	Yes	Yes	Yes
FCC	47 CFR §15, Subpart A and C, Class B (Emission)	47 CFR §15, Subpart A and C, Class B (Emission)	47 CFR §15, Subpart A and C, Class B (Emission)	No
REACH	Yes	Yes	Yes	Yes
Innovation, Science and Economic Development Canada (ISED)	Class B (Emission)	Class B (Emission)	Class B (Emission)	No
UL	UL-916 (Energy Management Equipment)	UL-916 (Open Energy Management Equipment)	UL-916 (Open Energy Management Equipment)	No
C-UL US	Yes	Yes	Yes	No
CE - EU	Yes	Yes	Yes	Yes
WEEE - Directive of the European Union	Yes	Yes	Yes	Yes
RoHS Directive	Yes	Yes	Yes	Yes
RCM	Yes	Yes	Yes	Yes
eu.bac	No	No	No	Yes

All eu.bac certified products are found on the eu.bac web site www.eubaccert.eu

SmartX IP Controllers RP-C – Inputs and Outputs

	RP-C-12A-F-24V	RP-C-12B-F-24V	RP-C-12C-F-24V	RP-C-16A-F-230V
Part Number	SXWRCF12A10001	SXWRCF12B10001	SXWRCF12C10001	SXWRCF16A10002
Universal Inputs/Outputs	8-Ub	8-Ub	4-Ub	8-Ub
Digital Input	Ub	Ub	Ub	Ub
Counter Input	Ub	Ub	Ub	Ub
Supervised Input	Ub	Ub	Ub	Ub
Voltage Input (0-10 VDC)	Ub	Ub	Ub	Ub
Resistive Input	Ub	Ub	Ub	Ub
Current Input (0-20 mA)	Ub	Ub	Ub	Ub
Temperature Input	Ub	Ub	Ub	Ub
2-wire RTD Temperature Input	Ub	Ub	Ub	Ub
Thermistor Input - 10k	Ub	Ub	Ub	Ub
Thermistor Input - 1.8k	Ub	Ub	Ub	Ub
Thermistor Input - 1k	Ub	Ub	Ub	Ub
Thermistor Input - 20k	Ub	Ub	Ub	Ub
Thermistor Input - 2.2k	Ub	Ub	Ub	Ub
RTD Temp Input - Ni1000	Ub	Ub	Ub	Ub
RTD Temp Input - Pt1000	Ub	Ub	Ub	Ub
RTP Temp Input - LG-Ni1000	Ub	Ub	Ub	Ub
Voltage Output (0-10 VDC)	Ub	Ub	Ub	Ub
Digital Outputs				
Solid-state Relay Output (MOSFET)	4		4	4
Relay Output (Form A)		3	3	3
High Power Relay Output (Form C)		1	1	1

Key: Ub – Universal Type B

SmartX IP Controllers RP-C – Accessories

The following accessories are available for the SmartX IP Controller – RP-C HVAC.

Part number	Product Name	Description
SXWRPCCOV10001	RP-C external terminal covers	Optional external covers for RP-C HVAC



SmartX IP Controller – RP-C with optional covers

Wireless Connectivity

USB-based wireless adapter that enables Zigbee™ wireless connectivity for SmartX Servers and SmartX IP Controllers.

Part Number	Product Name	Description
SXWZBAUSB10001	ZB-A-USB	SmartX Zigbee Adapter for the AS-P, AS-B and RP Series controllers
SXWUSBCRA10001	USB-CRA	USB adapter plastic mounting cradle and wall plate
SXWUSBCBL10001	USB-CBL-1	USB Extension Cable of Length 1 m (3 ft)
SXWUSBCBL10002	USB-CBL-3	Plenum rated USB Extension Cable of Length 3 m (10 ft)



Zigbee Adapter