

#### Introduction

SmartX IP Controller – RP-C is a room-purpose, fully programmable, IP based field controller that suits a wide range of HVAC applications. The RP-C can either be used as a standalone BACnet/IP field controller or as part of an EcoStruxure BMS with a SmartX AS-P or AS-B server or an Enterprise Server as the parent server. The RP-C features a wireless chip that allows the mobile commissioning application to connect directly to the controller.

The RP-C has the following features:

- IP enabled with dual-port Ethernet switch
- · Full range of controller models
- Versatile onboard I/O point mix
- Optional covers
- Wireless connectivity
- · Highly available
- Sensor bus for living space sensors
- Room bus for future support of connected room solutions
- Mobile commissioning application
- Full EcoStruxure Building Operation software support, providing efficient engineering tools

#### IP connectivity and flexible network topologies

The SmartX IP controllers are based on open protocols that simplify interoperability, IP configuration, and device management:

- IP addressing
- BACnet/IP communications
- DHCP for easy network configuration

The SmartX IP controllers have a dual-port Ethernet switch, which enables flexible network topologies:

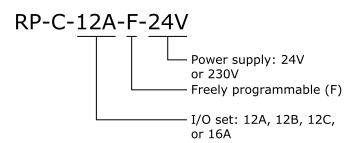
- Star
- Daisy chain
- Rapid Spanning Tree Protocol (RSTP) ring

In a star topology, the controller and the parent EcoStruxure BMS server are individually connected to an Ethernet switch. Daisy-chain multiple controllers together to reduce installation time and cost. Use an RSTP ring topology when you want a non-operational controller to be detected and recovered quickly and efficiently.

#### Full range of controller models

The RP-C comes in four different models, which offer four different sets of I/O point types, named 12A, 12B, 12C, and 16A. The RP-C-12A, -12B, and -12C models support 24 VAC/DC power supply, whereas the RP-C-16A model is a 230 VAC model.





#### Models with a versatile mix of I/O points

The RP-C-12A, -12B, -12C, and -16A models provide 12 or 16 I/O points, consisting of four different sets of I/O point types. The versatile mix of I/O point types match a wide variety of applications. The universal inputs/outputs are highly flexible and can be configured as either inputs or outputs.

#### Freely programmable

The freely programmable RP-C models provide flexibility through support of both Script and Function Block programming options. The RP-C promotes efficiency and standardization through the use of standard controller applications.

#### I/O Point Types by RP-C Models

I/O Point Types	RP-C-12A model	RP-C-12B model	RP-C-12C model	RP-C-16A model
Universal I/O	8	8	4	8
Type Ub				
Solid-state relay outputs	4	-	4	4
(MOSFET)				
Relay outputs	-	3	3	3
Form A				
High power relay outputs	-	1	1	1
Form C				

#### Configurations by I/O Point Types

Configurations	Universal I/O Type Ub	Solid-state Relay Outputs	Relay Outputs Form A	High Power Relay Outputs
		(MOSFET)		Form C
Digital inputs	yes	-	-	-
Counter inputs	yes	-	-	-
Supervised inputs	yes	-	-	-
Voltage inputs	yes	-	-	-
(0 to 10 VDC)				
Current inputs	yes	-	-	-
(0 to 20 mA)				
Temperature inputs	yes	-	-	-
Resistive inputs	yes	-	-	-
2-wire RTD temperature inputs	yes	-	-	-

#### Continued

Configurations	Universal I/O Type Ub	Solid-state Relay Outputs	Relay Outputs Form A	High Power Relay Outputs
	туре об	(MOSFET)	TOMINA	Form C
Voltage outputs	yes	-	-	-
(0 to 10 VDC)				
Digital outputs	-	yes	yes	yes
Digital pulsed outputs	-	yes	yes	yes
PWM outputs	-	yes	yes	yes
Tristate outputs	-	yes	yes	-
Tristate pulsed outputs	-	yes	yes	-

#### Universal inputs/outputs

The universal inputs/outputs are ideal for any mix of temperature, pressure, flow, status points, and similar point types in a building control system.

As counter inputs, the universal inputs/outputs are commonly used in energy metering applications. As RTD inputs, they are ideal for temperature points in a building control system. As supervised inputs, they are used for security applications where it is critical to know whether or not a wire has been cut or shorted. These events provide a separate indication of alarms and events in the system.

For all analog inputs, maximum and minimum levels can be defined to automatically detect over-range and under-range values.

The universal inputs/outputs are capable of supporting analog outputs of type voltage outputs. Therefore, the universal inputs/outputs support a wide range of devices, such as actuators.

#### Solid-state relay outputs

The solid-state relay (SSR) outputs can be used in many applications to switch 24 VAC or 24 VDC on or off for external loads such as actuators, relays, or indicators. SSRs are silent and are not adversely affected by relay contact wear.

#### Relay outputs

The relay outputs support digital Form A point types. The Form A relays are designed for direct load applications.

#### High power relay output

The high power relay output is of type Form C. The normally-open (NO) contact is ideal for switching resistive loads of up to 12 A, such as electrical heating elements. The normally-closed (NC) contact can be used to switch inductive loads of up to 3 A.

#### **Optional covers**

All RP-C models can be equipped with optional covers to reduce access to the screw terminals and wires.



RP-C with equipped with optional covers

#### Wireless connectivity

RP-C is a Bluetooth Low Energy (BLE) enabled product. You can use this wireless connectivity option to connect the RP-C with a smartphone or tablet running the eCommission SmartX Controllers mobile application.

#### Highly available

The SmartX IP controllers support local trends, schedules, and alarms, enabling local operation when the controller is offline or used in standalone applications.

The battery-free power backup of the memory and realtime clock helps prevent data loss and allows seamless and quick recovery after a power disruption.

In WorkStation, you to update the firmware of multiple SmartX IP controllers at the same time and with minimum down time. The EcoStruxure BMS server keeps track of the installed firmware to support backup, restore, and replacement of the controllers and sensors. The server can host controllers of different firmware versions.

#### Sensor bus for living space sensors

The SmartX IP controllers provide an interface designed for the SmartX Sensor family of living space sensors. The SmartX Sensors offer an efficient way to sense the temperature, humidity, CO<sub>2</sub>, and occupancy in a room. The SmartX Sensors are available with different combinations of sensor types and various covers and user interface options, such as touchscreen, setpoint and override buttons, and blank covers.







**SmartX Sensors** 

The sensor bus provides both power and communications for up to four sensors that are daisychained using standard Cat 5 (or higher) cables. The maximum number of sensors that can be connected to a controller varies depending on the sensor model and the combination of cover and sensor base type:

- Blank covers: Up to four sensors of any combination of sensor base types
- 3-button and touchscreen covers:
  - Up to two sensor bases with CO<sub>2</sub> option
  - Up to four sensor bases without CO<sub>2</sub> option
- SmartX LCD temperature sensors: Up to four sensors are supported

The maximum total length of the sensor bus is 61 m (200 ft). For more information, see the SmartX Living Space Sensors Specification Sheet.

#### Room bus for future support of connected room solutions

The Room bus means the RP-C is hardware-prepared for future support of connected room solutions that include equipment for control of electric lights, window

#### Mobile commissioning application

The eCommission SmartX Controllers mobile application is designed for local configuration, field deployment, and commissioning of SmartX IP controllers. The mobile application reduces the commissioning time, allows flexibility in project execution, and minimizes dependencies on network infrastructure.

The mobile application is designed for use with Android, Apple (iOS), and Microsoft Windows 10 devices. For more information, see the eCommission SmartX Controllers Specification Sheet.



eCommission SmartX Controllers mobile app

Using the eCommission SmartX Controllers mobile application, you can connect to one or many RP-Cs. You can connect to a single RP-C using the controller's built-in Bluetooth connectivity or using the eCommission Bluetooth Adapter connected to a SmartX Sensor. Using a wireless access point or a network switch, you can connect to a network of RP-Cs on the local IP network.

#### Device configuration

With the eCommission SmartX Controllers mobile application, you can easily discover SmartX IP controllers on the IP network. You can change the configuration of each controller, including the BACnet and IP network settings, location, and parent server. To save engineering time, you can save common device settings and then reuse them for controllers of the same model.

#### Field deployment and I/O checkout

The eCommission SmartX Controllers mobile application does not require an EcoStruxure BMS server or a network infrastructure to be in place. You can use the mobile application to load the controller application directly into the local SmartX IP controller and deploy the controller. The controller application can be created offline using Project Configuration Tool or WorkStation. You can use the mobile application to change the behavior of an installed standard controller application, such as configuring temperature setpoints. You can also perform an I/O checkout to verify that the controller's I/O points are configured, wired, and operating correctly.

### Full EcoStruxure Building Operation software

The power of the RP-C controller is fully realized when it is part of an EcoStruxure BMS, which provides the following benefits:

- WorkStation/WebStation interface
- Script and Function Block programming options
- · Device discovery
- Engineering efficiency
- · Preconfigured HVAC applications

#### WorkStation/WebStation interface

WorkStation and WebStation provide a consistent user experience regardless of which EcoStruxure BMS server the user is logged on to. The user can log on to the parent EcoStruxure BMS server to engineer, commission, supervise, and monitor the SmartX IP controller and its I/O as well as its attached SmartX Sensors. For more information, see the WorkStation and WebStation specification sheets.

#### Script and Function Block programming options

The freely programmable RP-C controller models have both Script and Function Block programming options. Existing programs can easily be reused between the EcoStruxure BMS server and the controller.

#### Device discovery

The enhanced Device Discovery in WorkStation enables you to easily identify SmartX IP controllers on a BACnet network and to associate the controllers with their parent server.

#### Engineering efficiency

The engineering and maintenance of SmartX IP controllers can be done very efficiently using the EcoStruxure Building Operation reusability features. With these features, you can create library items (Custom Types) for a complete controller application that contains programs and all necessary objects such as trends, alarms, and schedules. The controller application in the Custom Types library is reusable across all controllers of the same model. You can use the controller application as a base for creating new controllers intended for similar applications. You can then edit the controller application, and the changes are automatically replicated to all controllers, while each controller keeps its local values.

WorkStation supports both online and offline engineering of SmartX IP controllers. You can make the configuration changes online or use database mode to make the changes offline. In database mode, the changes are saved to the EcoStruxure Building Operation database so that you can apply the changes to the controllers later.

Project Configuration Tool enables you to perform all the engineering off site, without the need for physical hardware, which minimizes the time you need to spend on site. You can run the EcoStruxure BMS servers virtually and engineer the SmartX IP controllers before you deploy your server and controller applications to the servers and controllers on site. For more information, see the Project Configuration Tool specification sheet.

#### Preconfigured HVAC applications

To improve engineering efficiency and standardize engineering practices, fully designed and tested HVAC applications are available at ecobuilding.schneiderelectric.com/design/apps-selector for use with RP-C. This library contains applications for different RP-C models and application types, such as fan coil units and ceiling solutions. These preconfigured HVAC applications are packages that include all software programs, graphics, alarms, and documentation such as functional specifications and I/O wiring schedules needed for your projects. The online repository can be accessed using common web browsers on Windows PCs as well as mobile devices running Apple iOS 11.3 (or later) and Android 6.0 Marshmallow (or later). The download page provides an application selector to help you download an application that meets the needs

for a specific room solution with regards to application type, actuator type, fan control type, and sensor type. You can search and view the applications without having to log on to the online repository. To download or email an application, you need to log on or have a valid subscription through single sign-on via a Schneider Electric Exchange account. Before you make your choice, you can view all assets included in the application package. You can download or email an export file, an image file, a selection of the available files, or the whole package. The export file is used when you deploy RP-C from WorkStation, while the image file is used when you deploy RP-C from the eCommission SmartX Controllers mobile app (version 1.4 or later). Subscribe to the application to get a notification when the application is updated.



Download page application selector



#### Part Numbers

Product	Part number	
RP-C-12A-F-24V	SXWRCF12A10001	
RP-C-12B-F-24V	SXWRCF12B10001	
RP-C-12C-F-24V	SXWRCF12C10001	
RP-C-16A-F-230V	SXWRCF16A10002	
Optional covers	SXWRPCCOV10001	
DIN-RAIL-CLIP, DIN-rail end clip	SXWDINEND10001	
package of 25 pieces		
eCommission Bluetooth Adapter	SXWBTAECXX10001	

#### **Specifications**

#### AC input

#### RP-C-12A, -12B, and -12C models

Nominal voltage	24 VAC
Operating voltage range	+/-15 %
Frequency	50/60 Hz
Maximum power consumption	23 VA
Power input protection	MOV suppression and internal fuse
RP-C-16A model	
Nominal voltage	230 VAC
Operating voltage range	+/-10 %
Frequency	50/60 Hz

Frequency	50/60 Hz
Maximum power consumption	65 VA
Power input protection	MOV suppression and internal fuse

	PTC thermistor used as a resettable fuse for 24 VAC Out only
Overvoltage category	

Overvoitage category	 	
Pollution degree	 	2

#### RP-C-12A, -12B, and -12C models

Nominal voltage	24 to 30 VDC
Operating voltage range	
Maximum power consumption	14 W
Power input protection	MOV suppression and internal fuse

#### AC output

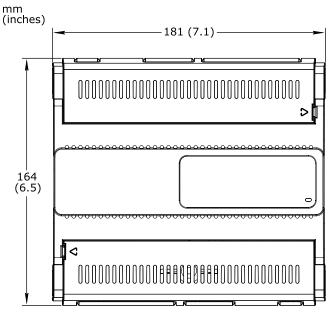
DC input

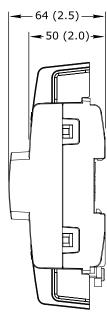
#### RP-C-16A model

Nominal voltage	24 VAC
Frequency	
Output power rating	19 VA
Environment	
RP-C-12A, -12B, and -12C models	0.4. 50.00 (00.4. 400.05)
Ambient temperature, operating40 to +60 °C (-40 to +140 °F	in to 50 °C (32 to 122 °F) at normal operation for rooftop applications, horizontal installation only
Ambient temperature, storage	
Maximum humidity	95 % RH non-condensing
RP-C-16A model	
Ambient temperature, operating	
Ambient temperature, storage	
Maximum humidity	95 % RH non-condensing
Material	
Plastic flame rating	
Ingress protection rating	IP 20
Mechanical	400 W 440 H C4 D (7.4 W 4.0 H 0.5 D.:)
Dimensions	← 64 (2.5) ←
(inches)	- 04 (2.3) -  - 50 (2.0) -
110	
(4 3)	44
(4.6)	<u> </u>
12 (0.5)	
<b>†</b>	<b>→</b> 44 (1.7) <b>→</b>
Weight, RP-C-12A model	
Weight, RP-C-12B and -12C models	
Weight, RP-C-16A model	
Weight, optional covers	0.070 kg (0.154 lb)

Terminal blocks .......Fixed

#### Optional covers





#### Software compatibility

EcoStruxure Building Operation software ......version 3.0 or later

#### Agency compliances

#### RP-C-12A, -12B, and -12C models

Emission	RCM; EN 61000-6-3; EN 50491-5-2; FCC Part 15, Sub-parts A and C, Class B
Immunity	EN 61000-6-2; EN 50491-5-3
Radio	EN 300 328 V2.1.1
	EN 60730-1; EN 60730-2-11; EN 50491-3; UL 916 C-UL US Listed <sup>a</sup> gement Equipment". RP-C-12B and -12C are marked "Open Energy
FCC ID	DVE-RPC24
ISED certification number	IC: 24775-RPC24
	es <sup>a</sup>

#### RP-C-16A model

Emission	RCM; EN 61000-6-3; EN 50491-5-2
Immunity	EN 61000-6-2; EN 50491-5-3
Radio	EN 300 328 V2.1.1
Safety standards	EN 60730-1; EN 60730-2-11; EN 50491-3
Energy	eu.bac Certified Product (Pending); EN 15500
Pool time clock	

#### Real-time clock

Accuracy, at 25 °C (77 °F) .....+/-1 minute per month

Backup time, at 25 °C	(77 °F)			7 days
Communication ports				
Ethernet				Dual 10/100BASE-TX (RJ45)
USB				1 USB 2.0 device port (mini-B)
				host port (type-A), 5 VDC, 2.5 W
				24 VDC, 2 W, RS-485 (RJ45)
				mmunication and power signals
				24 VDC, 3 W, RS-485 (RJ45) mmunication and power signals
		Transient vo	illage suppressors on co	ininunication and power signals
Communications			DAO	
				port configurable, default 47808 dvanced Application Controller)
				on BACnet International's home
Wireless connectivity				
Bluetooth Low Energ	у			
Communication proto	col		Bluet	ooth® 5.0 Low Energy compliant
•				2.402 to 2.480 GHz
				10 dBm
Maximum communica	ation distance			Line-of-sight: 100 m (328 ft)
Antenna				Integrated antenna
RF connector for option	onal external antenna			SMA connector
External antenna (opti	ional)Re	estricted to the a	pproved antenna type lis	sted below (used in certification)
Manufacturer	Model (Part number)	Gain	Туре	Impedance
Linx Technologies	ANT-2.4-WRT-MON-SMA	0.8 dBi	Monopole	50 ohm
CDLI				
CPU				500 MHz
,				APM Cortox A7 single core
* '				ARM Cortex-A7 single-core
				32 MB
				JZ IVID
				128 kB, FRAM, non-volatile
Universal inputs/output	uts			128 kB, FRAM, non-volatile
Universal inputs/output Channels, RP-C-12A	uts model			128 kB, FRAM, non-volatile
Universal inputs/output Channels, RP-C-12A I Channels, RP-C-12B I	uts model model			128 kB, FRAM, non-volatile 
Universal inputs/output Channels, RP-C-12A I Channels, RP-C-12B I Channels, RP-C-12C	uts model model model			
Universal inputs/output Channels, RP-C-12A in Channels, RP-C-12B in Channels, RP-C-12C in Channels, RP-C-16A in	uts model model model			128 kB, FRAM, non-volatile
Universal inputs/output Channels, RP-C-12A I Channels, RP-C-12B I Channels, RP-C-12C I Channels, RP-C-16A I Absolute maximum ra	uts model model model tings			

Universal input/output	protection	Transient voltage suppressor on each universal input/output
Digital inputs		
Range	.Dry contact switch closure or oper	n collector/open drain, 24 VDC, typical wetting current 2.4 mA
Minimum pulse width.		150 ms
Counter inputs		
Range	.Dry contact switch closure or oper	n collector/open drain, 24 VDC, typical wetting current 2.4 mA
Minimum pulse width.		
Maximum frequency		25 Hz
Supervised inputs		
5 V circuit, 1 or 2 resis		
		Series only, parallel only, and series and parallel
	uration, each resistor must have the	
Voltage inputs	, ,	
		0 to 10 VDC
O .		+/-(7 mV + 0.2 % of reading)
•		1.0 mV
		100 kohm
Current inputs		
·		0 to 20 mA
		+/-(0.01 mA + 0.4 % of reading)
Resolution		1 μΑ
Impedance		47 ohm
Resistive inputs		
10 ohm to 10 kohm ac R = Resistance in ohm		+/-(7 + 4 x 10 <sup>-3</sup> x R) ohm
		+/-( $4 \times 10^{-3} \times R + 7 \times 10^{-8} \times R^2$ ) ohm
R = Resistance in ohm		
Temperature inputs (the	<i>'</i>	FO L 14F0 (O / FO L 1000 (F))
		50 to +150 °C (-58 to +302 °F)
Supported thermistors		
		Linearized 10 kohm
		Linearized 10 kohm2.2 kohm
JUHISUH COMITOIS		

Xenta		1.8 kohm
Balco		1 kohm
Measurement accuracy		
		50 to -30 °C: +/-1.5 °C (-58 to -22 °F: +/-2.7 °F)30 to 0 °C: +/-0.5 °C (-22 to +32 °F: +/-0.9 °F)0 to 100 °C: +/-0.2 °C (32 to 212 °F: +/-0.4 °F)100 to 150 °C: +/-0.5 °C (212 to 302 °F: +/-0.9 °F)
		50 to -30 °C: +/-0.75 °C (-58 to -22 °F: +/-1.35 °F) 30 to +100 °C: +/-0.2 °C (-22 to +212 °F: +/-0.4 °F) 100 to 150 °C: +/-0.5 °C (212 to 302 °F: +/-0.9 °F)
		50 to -30 °C: +/-2.0 °C (-58 to -22 °F: +/-3.6 °F)30 to 0 °C: +/-0.75 °C (-22 to +32 °F: +/-1.35 °F) 0 to 100 °C: +/-0.2 °C (32 to 212 °F: +/-0.4 °F)100 to 150 °C: +/-0.5 °C (212 to 302 °F: +/-0.9 °F)
1 kohm		50 to +150 °C: +/-1.0 °C (-58 to +302° F: +/-1.8 °F)
RTD temperature inputs		
Supported RTDs		Pt1000, Ni1000, and LG-Ni1000
Pt1000		
Sensor range		
SmartX IP Controller device environment	Sensor range	Measurement accuracy
0 to 50 °C (32 to 122 °F)	-50 to +70 °C (-58 to +158 °F)	+/-0.5 °C (+/-0.9 °F)
0 to 50 °C (32 to 122 °F)	70 to 150 °C (158 to 302 °F)	+/-0.7 °C (+/-1.3 °F)
-40 to +60 °C (-40 to +140 °F)	-50 to +150 °C (-58 to +302 °F)	+/-1.0 °C (+/-1.8 °F)
Ni1000		

SmartX IP Controller device environment	Sensor range	Measurement accuracy
0 to 50 °C (32 to 122 °F)	-50 to +150 °C (-58 to +302 °F)	+/-0.5 °C (+/-0.9 °F)
-40 to +60 °C (-40 to +140 °F)	-50 to +150 °C (-58 to +302 °F)	+/-0.5 °C (+/-0.9 °F)

Sensor range .......-50 to +150 °C (-58 to +302 °F)

#### LG-Ni1000

Sensor range ......50 to +150 °C (-58 to +302 °F)

SmartX IP Controller device environment	Sensor range	Measurement accuracy
0 to 50 °C (32 to 122 °F)	-50 to +150 °C (-58 to +302 °F)	+/-0.5 °C (+/-0.9 °F)
-40 to +60 °C (-40 to +140 °F)	-50 to +150 °C (-58 to +302 °F)	+/-0.5 °C (+/-0.9 °F)

#### RTD temperature wiring

Maximum wire resistance	20 onm/wire (40 onm total)
Maximum wire capacitance	60 nF

The wire resistance and capacitance typically corresponds to a 200 m wire.

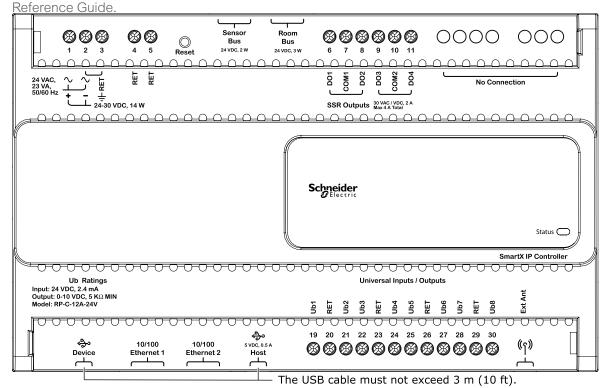
### Voltage outputs

voltage outputs	
Accuracy	+/-60 mV
Resolution	10 mV
Minimum load resistance	5 kohm
Load range	1 to +2 mA
Relay outputs, DO	
Channels, RP-C-12A model	0
Channels, RP-C-12B model	
Channels, RP-C-12C model	
Channels, RP-C-16A model	
Switch type	Form A Relay Single Pole Single Throw Normally Open
Commons	COM1 for DO1, DO2, and DO3 (on RP-C-12B model)COM3 for DO5, DO6, and DO7 (on RP-C-12C and RP-C-16A models)
	3,000 VAC
Cycle life	At least 100,000 cycles
Minimum pulse width	
High power relay outputs, DO	
Channels, RP-C-12A model	0
Channels, RP-C-12B model	
Channels, RP-C-12C model	
Channels, RP-C-16A model	
	Normally Closed contact, inductive load: 250 VAC/24 VDC, 3 A (cos phi = 0.4)
	Form C RelaySingle Pole Double ThrowNormally Open and Normally Closed
	5,000 VAC
	At least 100,000 cycles
Solid-state relay outputs, DO	
	4, DO1 to DO4

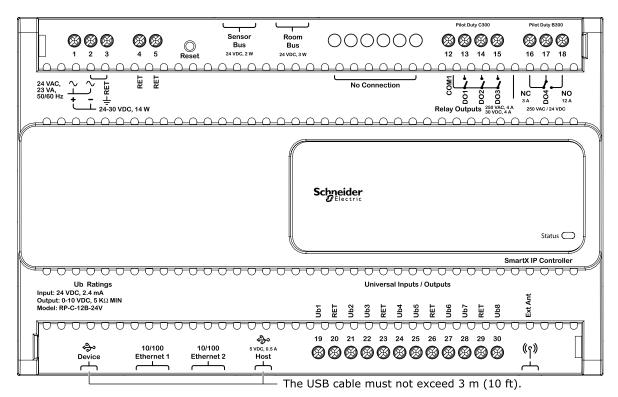
Channels, RP-C-16A model	4, DO1 to DO4
Output rating	Maximum 2 A load per output
	Maximum 4 A total load for the 4 outputs
AC voltage range	24 VAC +/-20 %
	Maximum 30 VDC
	n AC, the common terminals can be connected to 0 to 30 VAC. When the SSR non terminals can be connected to -30 VDC to +30 VDC.
Common voltage range (AC)	0 to 30 VAC
Common voltage range (DC)	-30 to +30 VDC
Minimum pulse width	100 ms
Solid-state relay output protection	Transient voltage suppressor across each solid-state relay (SSR) output

#### **Terminals**

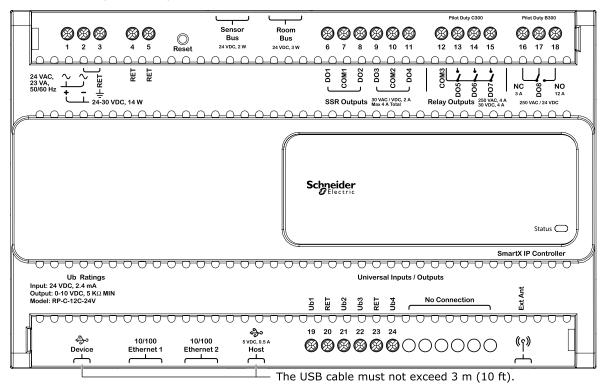
For more information on wiring, see Hardware



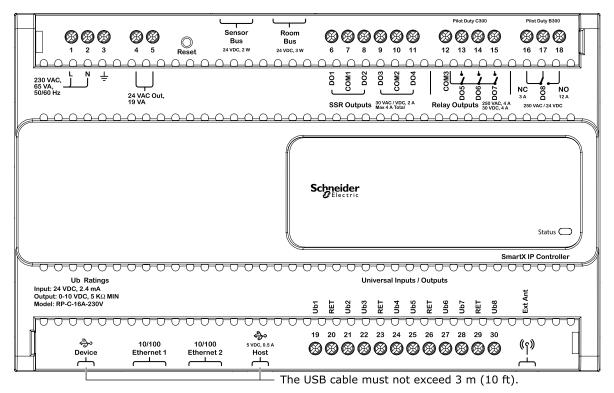
RP-C-12A model (24 VAC/DC)



RP-C-12B model (24 VAC/DC)



RP-C-12C model (24 VAC/DC)



RP-C-16A model (230 VAC)

#### Part Numbers in AMER Region for Network Connectivity Accessories

Product description <sup>a</sup>	Part number (AMER region)	
Cat 6 field-term plug, UTP	ACTPG6TLU001	
Cat 6 pass-through plug, UTP, 100-pack	ACTPG6PTU100	
Actassi crimping tool	ACTTLCPT	
Cat 6 cable, UTP, 1000 ft (305 m), CMP, green	ACT4P6UCP1ARXGR	
Cat 6 patch cord, UTP, 30 ft (9 m), CMP, green	ACTPC6UBCP30AGR	
Cat 6 patch cord, UTP, 50 ft (15 m), CMP, green	ACTPC6UBCP50AGR	
Cat 6 patch cord, UTP, 70 ft (21 m), CMP, green	ACTPC6UBCP70AGR	
Cat 6 patch cord, UTP, 90 ft (27 m), CMP, green	ACTPC6UBCP90AGR	
Cat 5e pass-through plug, UTP, 100-pack	ACTPG5EPTU100	
Cat 5e cable, UTP, 1000 ft (305 m), CMP, green	ACT4P5EUCP1ARXGR	
Cat 5e patch cord, UTP, 30 ft (9 m), CMP, green	ACTPC5EUBCP30AGR	
Cat 5e patch cord, UTP, 50 ft (15 m), CMP, green	ACTPC5EUBCP50AGR	
Cat 5e patch cord, UTP, 70 ft (21 m), CMP, green	ACTPC5EUBCP70AGR	
Cat 5e patch cord, UTP, 90 ft (27 m), CMP, green	ACTPC5EUBCP90AGR	

a) For more information, see the Product Selection Guide (SmartX IP Controllers - Accessories). Abbreviations: UTP (Unshielded Twisted Pair), CMP (Plenum-rated cable)



#### Part Numbers in EMEA Region for Network Connectivity Accessories

Product description <sup>a</sup>	Part number (EMEA region)	
Cat 6 field-term plug, UTP	ACTPG6TLU001	
Cat 6 pass-through plug, UTP, 100-pack	ACTPG6PTU100	
Actassi crimping tool	ACTTLCPT	
Cat 6 cable, UTP, 305 m (1000 ft), Euroclass D, green	VDICD116118	
Cat 6 patch cord, UTP, 10 m (32 ft), LSZH, green	ACTPC6UBLS100GR	
Cat 6 patch cord, UTP, 15 m (49 ft), LSZH, green	ACTPC6UBLS150GR	
Cat 6 patch cord, UTP, 20 m (65 ft), LSZH, green	ACTPC6UBLS200GR	
Cat 6 patch cord, UTP, 25 m (82 ft), LSZH, green	ACTPC6UBLS250GR	
Cat 5e pass-through plug, UTP, 100-pack	ACTPG5EPTU100	
Cat 5e cable, UTP, 1000 ft (305 m), Euroclass D, green	VDICD115118	
Cat 5e patch cord, UTP, 10 m (32 ft), LSZH, green	ACTPC5EUBLS100GR	
Cat 5e patch cord, UTP, 15 m (49 ft), LSZH, green	ACTPC5EUBLS150GR	
Cat 5e patch cord, UTP, 20 m (65 ft), LSZH, green	ACTPC5EUBLS200GR	
Cat 5e patch cord, UTP, 25 m (82 ft), LSZH, green	ACTPC5EUBLS250GR	

a) For more information, see the Product Selection Guide (SmartX IP Controllers - Accessories). Abbreviations: UTP (Unshielded Twisted Pair), CMP (Plenum-rated cable), LSZH (Low Smoke Zero Halogen)

#### Part Numbers in Pacific Region for Network Connectivity Accessories

Product description <sup>a</sup>	Part number (Pacific region)
Cat 6 field-term plug, UTP	ACTPG6TLU001
Cat 6 pass-through plug, UTP, 100-pack	ACTPG6PTU100
Actassi crimping tool	ACTTLCPT
Cat 6 cable, UTP, 305 m (1000 ft), PVC, green	2D4P6IPV3B-GR
Cat 6 patch lead, UTP, 10 m (32 ft), PVC, green	RJ6_100PL-GR
Cat 6 patch lead, UTP, 15 m (49 ft), PVC, green	RJ6_150PL-GR
Cat 6 patch lead, UTP, 20 m (65 ft), PVC, green	RJ6_200PL-GR
Cat 6 patch lead, UTP, 25 m (82 ft), PVC, green	RJ6_250PL-GR
Cat 5e pass-through plug, UTP, 100-pack	ACTPG5EPTU100
Cat 5e cable, UTP, 305 m (1000 ft), PVC, green	2D4P5IPV3B-GR
Cat 5e patch lead, UTP, 10 m (32 ft), PVC, green	RJ5_100PL-GR
Cat 5e patch lead, UTP, 15 m (49 ft), PVC, green	RJ5_150PL-GR
Cat 5e patch lead, UTP, 20 m (65 ft), PVC, green	RJ5_200PL-GR
Cat 5e patch lead, UTP, 25 m (82 ft), PVC, green	RJ5_250PL-GR

a) For more information, see the Product Selection Guide (SmartX IP Controllers - Accessories). Abbreviations: UTP (Unshielded Twisted Pair), PVC (Polyvinyl chloride)



#### **Regulatory Notices**



#### Federal Communications Commission

FCC Rules and Regulations CFR 47, Part 15, Class B
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference. (2) This device must accept any interference received, including interference that may cause undesired operation. FCC ID: DVE-RPC24

#### **Industry Canada**

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. IC: 24775-RPC24



This equipment complies with the requirements of the relevant ACMA standards made under the Radiocommunications Act 1992 and the Telecommunications Act 1997. These standards are referenced in notices made under section 182 of the Radiocommunications Act and 407 of the Telecommunications Act.

(Cerr) eu.bac - European Building Automation and Controls Association. Certified Product (Pending).

This product is certified by eu.bac and conforms to the quality and energy performance criteria outlined by the following European product standard: EN 15500.

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

### CE - Compliance to European Union (EU)

2014/53/EU Radio Equipment Directive (RED) 2014/35/EU Low Voltage Directive 2011/65/EU Restriction of Hazardous Substances (RoHS) Directive

2015/863/EU amending Annex II to Directive 2011/65/EÚ
This equipment complies with the rules, of the Official Journal of the European Union, for

governing the Self Declaration of the CE Marking for the European Union as specified in the above directive(s) per the provisions of the following standards: EN 60730-1, EN 60730-2-11, and EN 50491-3 Safety Standards.



#### ■ WEEE - Directive of the European Union (EU)

This equipment and its packaging carry the waste of electrical and electronic equipment (WEEE) label, in compliance with European Union (EU) Directive 2012/19/EU, governing the disposal and recycling of electrical and electronic equipment in the European community.



UL 916 Listed products for the United States and Canada. UL file E80146.

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