

# Product data sheet

Specifications



SpaceLogic room controller, 12 points, 4 universal inputs/outputs type Ub, 4 solid state relay outputs, 3 low power relays, 1 high power relay

SXWRCF12C10001

## Main

Range	EcoStruxure Building Operation
Product name	SmartX Room Purpose Controller
Device short name	RP-C-12C-F-24V
Product brand	Schneider Electric
Product or component type	Programmable controllers
Device application	HVAC Low voltage fan coil Chilled beam Low voltage rooftop
[Us] rated supply voltage	20.4...27.6 V AC 23...33 V DC
Digital output	4 solid state 3 relay control circuit 1 relay voltage circuit
Discrete output voltage	0...10 V for output circuit 250 V AC for control relay 30 V DC for control relay 250 V AC for voltage relay 24 V DC for voltage relay 24 V AC for solid state output <= 30 V DC for solid state output
Discrete output current	2 mA for load 2 A for solid state output (DO1...DO4) 4 A for control relay (DO5...DO7) 12 A for voltage relay (DO8)

## Complementary

Network frequency	50 Hz 60 Hz
Maximum power consumption in W	14 W
Maximum power consumption in VA	23 VA
Discrete input voltage	0...10 V
Discrete input voltage type	DC
Product compatibility	Xenta I/NET Continuum Balco Satchwell Honeywell Johnson Control

Invensys (FD)  
 Linx Technologies antenna  
 SmartX living space sensor

<b>Analogue input type</b>	Configurable voltage, current or probe 0...2 mA Configurable voltage, current or probe 0...10 V input voltage Configurable voltage, current or probe 20 kOhm connection of probes Configurable voltage, current or probe 10 kOhm connection of probes Configurable voltage, current or probe 2.2 kOhm connection of probes Configurable voltage, current or probe 1.8 kOhm connection of probes Configurable voltage, current or probe 1 kOhm connection of probes
<b>Universal Input/outputs number</b>	4
<b>Temperature probe type</b>	LG-Ni 1000 - 50...150 °C Ni 1000 - 50...150 °C Pt 1000 - 50...150 °C
<b>Discrete input current</b>	2.4 mA
<b>Input impedance</b>	100 kOhm for voltage circuit 47 Ohm for current circuit
<b>Maximum current per output common</b>	4 A at COM 1 + COM 2
<b>Absolute accuracy error</b>	+/- 7 mV plus + 0.2 % of reading for voltage +/- 0.01 mA plus + 0.4 % of reading for current +/- 0.5 °C for - 50...70 °C
<b>Switching frequency</b>	25 Hz
<b>Mechanical durability</b>	100000 cycles for control relay 100000 cycles for voltage relay
<b>Protection type</b>	Internal fuse Built-in by varistor
<b>Processor name</b>	ARM Cortex-A7
<b>Memory description</b>	Internal 6 MB Flash 32 MB Internal data storage (FRAM) 128 kB
<b>Backup time</b>	7 days
<b>Realtime clock</b>	With
<b>Clock drift</b>	1 min/month at 25 °C
<b>Function available</b>	PWM
<b>Integrated connection type</b>	Port with USB 2.0 type B connector and mini USB interface Port with USB host port type A connector RS485 sensor with bus connector RS485 room picto with bus connector
<b>Communication port protocol</b>	BACnet IP Bluetooth 5.0 LE - SMA
<b>Port Ethernet</b>	10/100BASE-TX 2 port
<b>Communication service</b>	RSTP (Ring topology support) Programming
<b>Topology</b>	Daisy chain Star Ring
<b>Local signalling</b>	1 LED (green) for status
<b>Display type</b>	Without display
<b>Electrical connection</b>	screw terminals, 6 terminal(s) for inputs and outputs screw terminals, 10 terminal(s) output screw terminals, 3 terminal(s) power supply screw terminals, 3 terminal(s) form C relays SMA antenna with cable, 1 terminal(s)
<b>Cable length</b>	3 m for USB port
<b>Insulation</b>	Between output and ground at 3000 V AC Between power output and ground at 5000 V AC
<b>Material</b>	ABS/PC
<b>Mounting support</b>	DIN rail wall-mount

Height	110 mm
Depth	64 mm
Width	180 mm
Net weight	390 g

## Environment

Standards	FCC CFR 47 part 15 UL 916 EN 60730-1 EN 60730-2-11 EN 50491-3 UL 2043
Product certifications	BTL FCC part 15 class C CULus CE RCM
Electromagnetic compatibility	Electromagnetic emission conforming to EN 61000-6-3 Electromagnetic emission conforming to EN 50491-5-2 Electromagnetic emission class B conforming to FCC part 15 subpart C Electromagnetic emission class B conforming to FCC part 15 subpart A Immunity to electromagnetic emissions conforming to EN 61000-6-2 Immunity to electromagnetic emissions conforming to EN 50491-5-3 Radiated emission conforming to EN 300-328
Ambient air temperature for operation	0...50 °C -40...60 °C (outside)
Ambient air temperature for storage	-20...70 °C
Relative humidity	0...95 %, non-condensing
IP degree of protection	IP20
Flame retardance	UL94-5V

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	440 g
Package 1 Height	18.3 cm
Package 1 width	6.9 cm
Package 1 Length	12.5 cm

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes
Halogen content performance	Halogen free plastic parts product

