

# Product data sheet

Specifications



## SpaceLogic room controller, 16 points, 8 universal I/O, 4 solid-state relay, 3 form A relay, 1 form C high power relay

SXWRCF16A10002

### Main

Range	EcoStruxure Building Operation
Product name	SmartX Room Purpose Controller
Device short name	RP-C-16A-F-230V
Product brand	Schneider Electric
Product or component type	Programmable controllers
Device application	HVAC Low voltage fan coil Chilled beam
[Us] rated supply voltage	207...253 V AC
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 VA	65 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
Analogue input type	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>	8
<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, 12 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
<b>Height</b>	110 mm
<b>Depth</b>	64 mm
<b>Width</b>	180 mm

Net weight	472 g
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## Environment

Standards	EN 60730-1 EN 60730-2-11 EN 50491-3
Product certifications	BTL CULus CE RCM Eu.BAC
Electromagnetic compatibility	Electromagnetic emission conforming to EN 61000-6-3 Electromagnetic emission conforming to EN 50491-5-2 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
Ambient air temperature for storage	-20...70 °C
Relative humidity	0...95 %, non-condensing
IP degree of protection	IP20
Pollution degree	2
Flame retardance	UL94-5V

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	800 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
Halogen content performance	Halogen free plastic parts product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>