SpaceLogic Sensors
SXWS Sensors for MP and RP IP Controllers



Note: A subset of models shown.

Product Description

SXWS sensors are a family of living space sensors for use with MP and RP IP controllers that use the EcoStruxure Building Operation user interface. These sensors use an RJ-45 sensor bus that provides communication and power from the IP controller. For quick installation, up to four SXWS sensors may be connected to each IP controller through the RJ-45 sensor bus using Cat 5/6 cable (22 to 26 AWG). A Bluetooth® adapter is available for commissioning and service. It is temporarily connected to installed communicating sensors and allows for quick setup and configuration. The Bluetooth adapter communicates to upload devices (smart phone, laptop, table, etc.) with the Living Space Sensor EcoStruxure Building Operation app installed via USB or Bluetooth communications.

SXWS living space sensors are modular and are ordered in two parts: the sensor base and the cover. Four SXWS communicating sensor base models are available that can be paired with any SXWS cover model. CO_2, Relative Humidity, and Temperature sensor base options provide an efficient, cost effective solution for living space air quality and comfort needs. Covers are available with a 61 mm (2.4”) backlit color touchscreen and a three button non-display version for override and setpoint. Blank covers with no user interface are also available. All modular cover variants are available with and without passive infrared occupancy sensors.

Two complete sensor/cover combination model types are available:

- Temperature-only with LCD display. Communicating with three button cover. This is a low cost temperature sensor with a basic display.
- A two-wire, resistive-only, non-communicating temperature sensor is offered for a low cost conformance part. This uses an I/O port on the controller.

Combination models come with a sensor base and cover and are available in medium matte white, optimum glass white and optimum glass black. Combination units have the same form factor as the modular sensor bases and covers of the same housing type. Combination units will not work with other covers.

SXWS living space sensors measure the levels of CO_2 (if equipped), RH (if equipped), and temperature of air in a living space application. The CO_2 sensor operates within accuracy specifications for an interval of two years and can be field calibrated.

Features

- Medium matte white housing or optimum glass panel housing available in white or black
- 61 mm (2.4”) backlit color touchscreen cover available
- Digital temperature indication (°F or °C)
- Digital humidity indication (% RH)
- Basic LCD, three button with temperature available
- Long-life humidity sensing element with excellent resistance to contamination and condensation
- Digital CO_2 indication (0 to 2000 ppm display resolution)
- Field calibratable non-dispersive infrared CO_2 sensor
- Pushbutton override capabilities allow occupants to switch to timed occupied mode for after hours operation
- Displays selected system values such as setpoints, outdoor air temperature, and operating mode
- Touchscreen includes light and blind control functionality, for use with RP-x controllers with light/blind modules
- Configurable to show only setpoint temperature rather than actual temperature
- Provides the ability to change operating modes
- Passive Infrared (PIR) occupancy sensor covers available
- Directly connects to the sensor bus of the MP Series controller with EcoStruxure Building Operation software version 2.0 or greater
- Sensor bus provides power and communication via RJ-45 over Cat 5/6 cable (22 to 26 AWG)

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Specifications

CO_2 Sensor	
Sensor type	Non-dispersive infrared (NDIR), diffusion sampling
Output range	0 to 10,000 ppm
Accuracy	±30 ppm ±2% of measured value for 0 to 2,000 ppm range
Repeatability	±20 ppm ±1% of measured value
Response time	<60 seconds for 90% step change
RH Sensor	
HS sensor	Solid state capacitive
Accuracy*	±2% from 10 to 80% RH @ 25°C (77 °F)
Hysteresis	1.5% typical
Linearity	Included in accuracy specification
Stability	±1% @ 20°C (68 °F) annually for 2 years
Output range	0 to 100% RH
Temperature coefficient	±0.1% RH/°C above or below 25 °C (77 °F) typical
Temperature Sensor (Non-communicating Models)	
Sensor type	10K Type 3 thermistor
Accuracy	±0.2 °C (±0.4 °F) typical
Resolution	0.1 °C (0.2 °F)
Output range	0 to 50 °C (32 to 122 °F)
Temperature Sensor (Communicating Models)	
Accuracy	±0.2 °C (±0.4 °F) typical
Occupancy Sensor	
Sensor type	Passive infrared (PIR)
Light and Blind Control	
Number of light control zones	1 manually controlled 4 configurable in scenes
Number of blind control zones	12 blind groups 1 manually controlled 4 configurable in scenes
User interface	Any SXWS cover with touchscreen
Communication	Sensor Bus on RP-x models with light/blind modules
Preconfigured scenes	Configurable via EcoStruxure Building Operation software
Light control	On/off/dimming
Blind control	Blind open /close/adjust Louver open/close/adjust
Operating Environment	
Operating temperature	0 to 50 °C (32 to 122 °F)
Operating humidity range	0 to 95% RH, non-condensing
Housing material	High impact ABS plastic Flammability rating UL 94 V-0
Input power	2 or 3 watts (depending on controller model), 24 Vdc over sensor bus

Wiring Terminals	
Non-communicating models	Screw, 2-wire, 18-24 AWG
Communicating models	RJ-45 female sensor bus
Regulatory Information	
Agency approvals	UL 916, European conformance CE: EN 61000-6-3 EN 61000 Series - industrial immunity standard EN 61326-1 FCC Part 15 Class B, REACH, RoHS, Green Premium, RCM (Australia), EAC (Russia)**, ICES-003 (Canada), UKCA (UK)

*Humidity sensor measurement uncertainty should include: accuracy, hysteresis, temperature coefficient and stability.
**SXWSATXXXSLX, SXWSATXXXSLW, SXWSATXXXSLB only.

Software Specifications

Using the SpaceLogic Bluetooth Adapter to Configure

- Custom field-configurable sensor displays
- Auto-ranging of displayed values
- Occupant command capabilities
- Adjustable minimum/maximum limit setpoint values
- Controller driven, automatically configured, customized display/command values

Communications

IP Controller Sensor Bus

IP controller sensor bus communications wiring provides power and communication interface to the MP Series controllers. The IP controller sensor bus connects up to four sensor devices per controller using unshielded RJ-45 connectors and Cat 5/6 cable (22 to 26 AWG)*. The maximum total length of the IP controller sensor bus is 61 m (200 ft.).

*Due to power constraints, limitations exist for the number of sensors the Sensor Bus can support. For specific sensor combinations supported, see the Sensor Bus Configuration Calculator on the last page of this document.

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Multiple Housing Finishes Available

Optimum Housing

- Higher-end aesthetic suitable for new construction and remodels
- Available for all SXWS cover types
- Glass touch panel
- Available in white or black



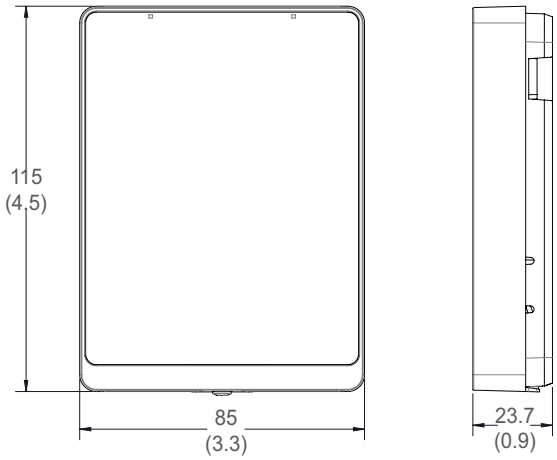
Medium Housing

- Standard aesthetic suitable for schools, hospitals, municipal facilities
- Available for all SXWS cover types (except off-screen light/blind control buttons)
- Matte white finish

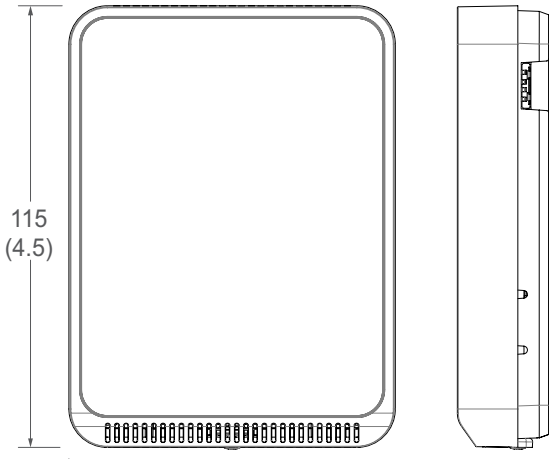


Dimensions mm (in.)

Optimum Housing



Medium Housing



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Available Products

SXWS Sensor Bases

Model Number	Temp	RH	CO_2	Cover	IP Controller System Bus	Resistive Only (10K T3)	Base Color
SXWSBTXXXSXX	X			Not Included	X		Clear/Transparent
SXWSBTHXXSXX	X	X		Not Included	X		Clear/Transparent
SXWSBTXCXSXX	X		X	Not Included	X		Clear/Transparent
SXWSBTXCXSXB	X		X	Not Included	X		Black
SXWSBTHCXSXX	X	X	X	Not Included	X		Clear/Transparent
SXWSATXXXSLX*	X			Included - Medium White	X		Clear/Transparent
SXWSATXXXSLW*	X			Included - Optimum White	X		Clear/Transparent
SXWSATXXXSLB*	X			Included - Optimum Black	X		Clear/Transparent
SLASXXX*	X			Included - Medium White		X	Clear/Transparent
SLAWXXX*	X			Included - Optimum White		X	Clear/Transparent
SLABXXX*	X			Included - Optimum Black		X	Clear/Transparent

*Combination models include base and cover.

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Available Products (cont.)

SXWS Covers

Model Number	61mm (2.4") Color Touchscreen with Light & Blind Control	Override	Setpoint	Off-Touchscreen Light & Blind Control Buttons	Off-Touchscreen Light Control Buttons	Occupancy Sensor (PIR)	Housing Finish
SXWSCDXSELXX	X	X	X				Medium, White
SXWSC3XSELXX		X	X				Medium, White
SXWSCBXSELXX							Medium, White
SXWSCDPSELXX	X	X	X			X	Medium, White
SXWSC3PSELXX		X	X			X	Medium, White
SXWSCBPSELXX						X	Medium, White
SXWSCDXSELXW	X	X	X				Optimum, White
SXWSC3XSELXW		X	X				Optimum, White
SXWSCBXSELXW							Optimum, White
SXWSCDPSELXW	X	X	X			X	Optimum, White
SXWSC3PSELXW		X	X			X	Optimum, White
SXWSCBPSELXW						X	Optimum, White
SXWSCDXSELXB	X	X	X				Optimum, Black
SXWSC3XSELXB		X	X				Optimum, Black
SXWSCBXSELXB							Optimum, Black
SXWSCDPSELXB	X	X	X			X	Optimum, Black
SXWSC3PSELXB		X	X			X	Optimum, Black
SXWSCBPSELXB						X	Optimum, Black
SXWSC2XSELXW	X	X	X		X		Optimum, White
SXWSC4XSELXW	X	X	X	X			Optimum, White
SXWSC2PSELXW	X	X	X		X	X	Optimum, White
SXWSC4PSELXW	X	X	X	X		X	Optimum, White
SXWSC2XSELXB	X	X	X		X		Optimum, Black
SXWSC4XSELXB	X	X	X	X			Optimum, Black
SXWSC2PSELXB	X	X	X		X	X	Optimum, Black
SXWSC4PSELXB	X	X	X	X		X	Optimum, Black

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Sensor and Cover Combination Models

Communicating Temperature Only User Interface with LCD

- Configurable through the eCommission Bluetooth Adapter or EcoStruxure Building Operation software
- LCD displays temperature, heating, cooling status
- Setpoint and override



SXWSATXXXSLW

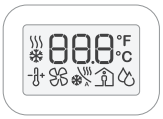


SXWSATXXXSLB



SXWSATXXXSLX

Display Example



Non-communicating Temperature Only, No User Interface

- 2-wire resistive output
- 10K Type 3 thermistor
- Uses I/O port on controller



SLAWXXX



SLABXXX



SLASXXX

Cover Variants - Communicating Sensors

Blank, No User Interface

- Configurable through the eCommission Bluetooth Adapter or EcoStruxure Building Operation software
- Occupancy sensor version available



SXWSCBXSELXW



SXWSCBPSELXW with Occupancy Sensor



SXWSCBXSELXB



SXWSCBPSELXB with Occupancy Sensor



SXWSCBXSELXX



SXWSCBPSELXX with Occupancy Sensor

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Cover Variants - Communicating Sensors (cont.)

3-Button User Interface, Setpoint and Override

- Configurable through the eCommission Bluetooth Adapter or EcoStruxure Building Operation software
- Setpoint and override buttons
- Halo indicates heating and cooling status
- Occupancy sensor version available



SXWSC3XSELXW



SXWSC3PSELXW with Occupancy Sensor



SXWSC3XSELXB



SXWSC3PSELXB with Occupancy Sensor



SXWSC3XSELXX



SXWSC3PSELXX with Occupancy Sensor

Touch Screen User Interface

- Configurable through the eCommission Bluetooth Adapter or EcoStruxure Building Operation software
- 61 mm (2.4”) color touchscreen
- CO_2, RH, temperature, setpoint and override displayed
- Heating, cooling, ecomode status
- Light and blind control for use with RP-x with light and blind modules
- Occupancy sensor version available



SXWSCDXSELXW



SXWSCDPSELXW with Occupancy Sensor



SXWSCDXSELXB



SXWSCDPSELXB with Occupancy Sensor

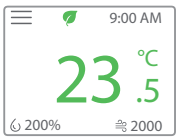


SXWSCDXSELXX

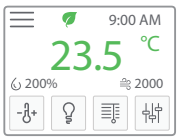


SXWSCDPSELXX with Occupancy Sensor

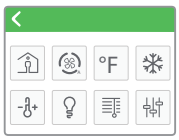
Display Examples



HVAC Configuration



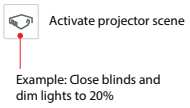
Up to 4 Configurable Buttons on Main Menu



Sub-menu Configurable with up to 8 Buttons

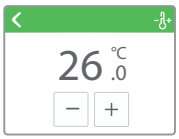


Configurable Preset Scenes

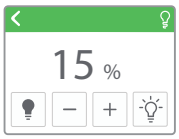


Configured Scene Example

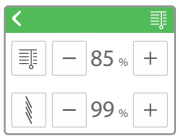
Setpoint Examples



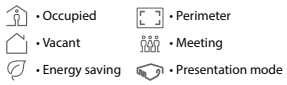
Temperature



Lighting



Blind and Louver



Available Scenes

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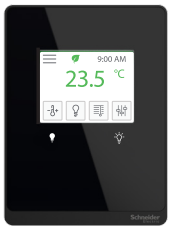
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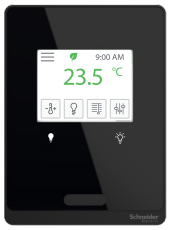
Touch Screen User Interface with Off-screen Light and Blind Control

- Configurable through the eCommission Bluetooth Adapter or EcoStruxure Building Operation software
- 61 mm (2.4”) color touchscreen
- CO_2, RH, temperature, setpoint and override displayed
- Heating, cooling, ecomode status
- Light and blind control for use with RP-x with light and blind modules
- Occupancy sensor version available
- Two glass touch capacitive button version for lights
- Four glass touch capacitive button version for lights and blinds


SXWSC2XSELXW

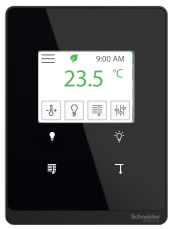

SXWSC2PSELXW with Occupancy Sensor


SXWSC2XSELXB


SXWSC2PSELXB with Occupancy Sensor

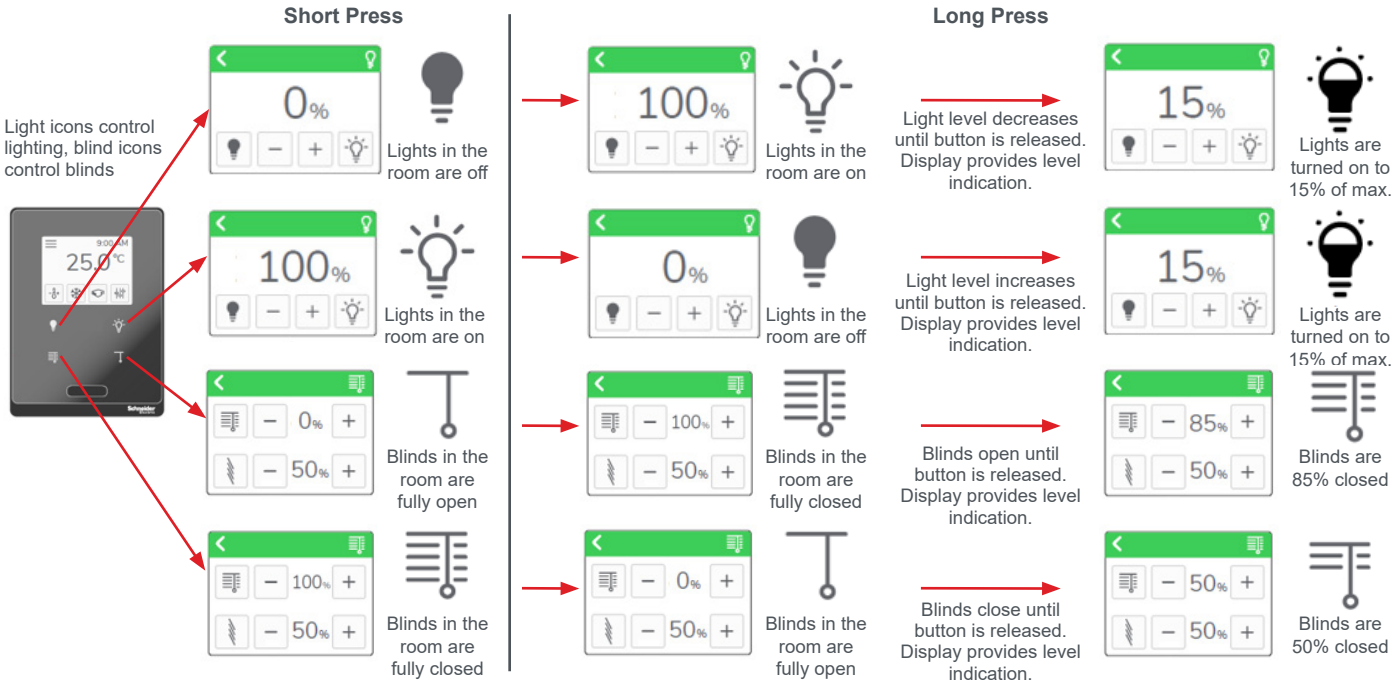

SXWSC4XSELXW


SXWSC4PSELXW with Occupancy Sensor


SXWSC4XSELXB


SXWSC4PSELXB with Occupancy Sensor

Display Examples: Same Functionality as Standard plus Off-Screen Light/Blind Capacitive Buttons



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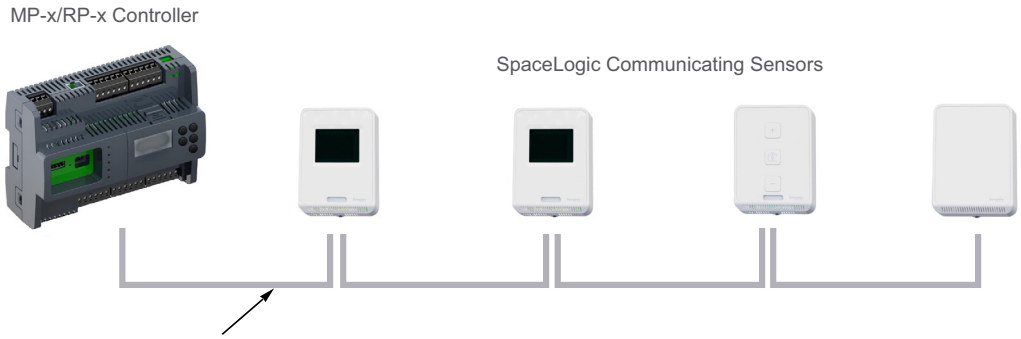
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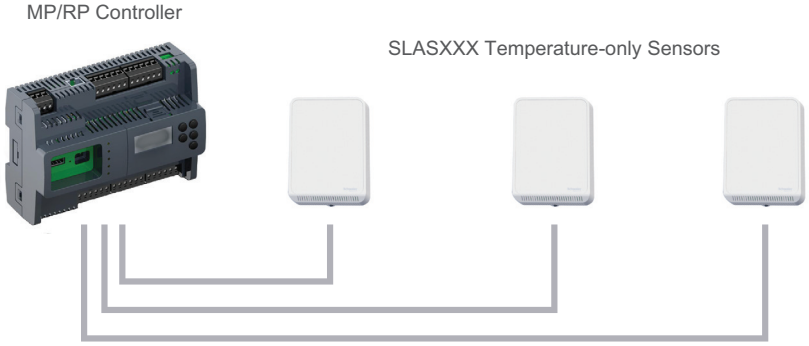
Architecture

MP/RP Controller and Sensor Bus with Communicating Sensors



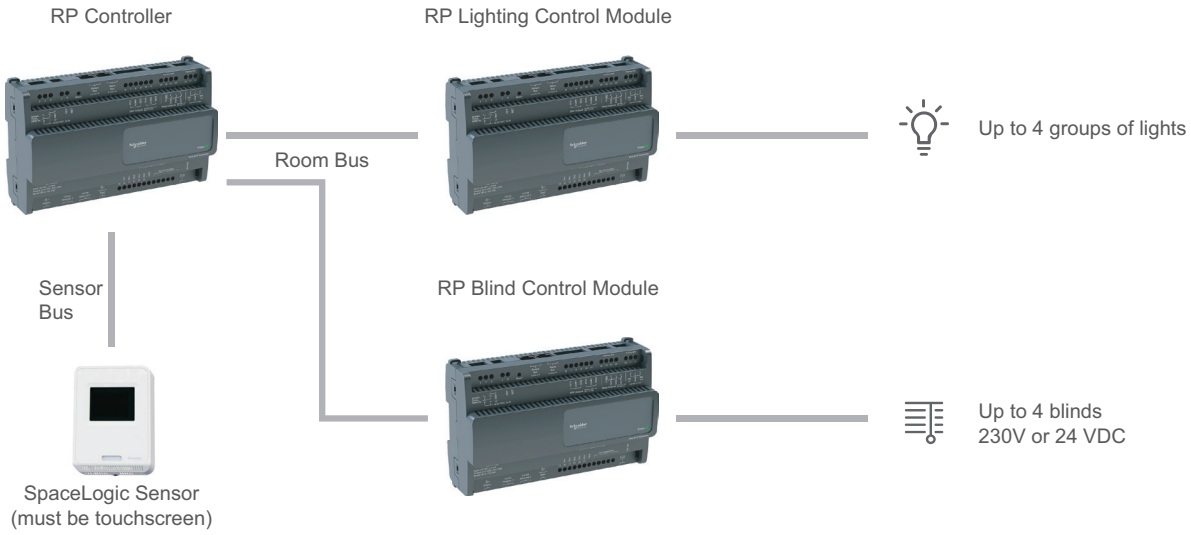
Cat 5/6 cable (22 to 26 AWG) terminated via unshielded RJ-45 connector.
61 m (200 ft.) total maximum length.
Up to four communicating sensors on sensor bus. For specific combinations of sensors supported by the Sensor Bus, see the Sensor Bus Configuration Calculator section later in this document.

MP/RP Controller and Non-communicating Sensors



Each sensor uses an I/O port on the controller.
Maximum number of inputs varies by controller type.

RP Controller, Light and Blind Control Modules with Communicating Sensor



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Sensor Bus Configuration Calculator

Calculate Power/mW to Validate Sensor Bus Configuration

Add power/mW for all covers, combination units and bases to be used on a single sensor bus for total sensor bus wattage. The sensor bus will support current of up to 3000 mW*. Device combinations totalling more than 3000 mW* will not be supported on the sensor bus.

*Some older controller versions support up to 2000 mW. Please check the controller specification sheet for further information.

Sensor Bus Power Table

Description	Model Number	Power/mW
Sensor Base, Temp	SXWSBTXXXSXX	90
Sensor Base, Temp, Humidity	SXWSBTHXXSXX	90
Sensor Base, Temp, CO_2	SXWSBTXCXSXX	490
	SXWSBTXCXSXB	490
Sensor Base, Temp, Humidity, CO_2	SXWSBTHCXSXX	490
Resistive 10K T3 Combination Sensors	SLASXXX	0
	SLABXXX	0
	SLAWXXX	0
Temp with LCD, 3-Button Combination Sensors	SXWSATXXXSLX	80
	SXWSATXXXSLB	80
	SXWSATXXXSLW	80
3-Button Covers with Occupancy	SXWSC3PSELXB	210
	SXWSC3PSELXW	210
	SXWSC3PSELXX	210
3-Button Covers	SXWSC3XSELXB	190
	SXWSC3XSELXW	190
	SXWSC3XSELXX	190
Blank Covers with Occupancy	SXWSCBPSELXB	20
	SXWSCBPSELXW	20
	SXWSCBPSELXX	20
Blank Covers	SXWSCBXSELXB	0
	SXWSCBXSELXW	0
	SXWSCBXSELXX	0
Touchscreen Covers with Occupancy	SXWSCDPSELXB	210
	SXWSCDPSELXW	210
	SXWSCDPSELXX	210
	SXWSC2PSELXB	210
	SXWSC2PSELXW	210
	SXWSC4PSELXB	210
	SXWSC4PSELXW	210

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Sensor Bus Power Table (cont.)

Description	Model Number	Power/mW
Touchscreen Covers	SXWSC2XSELXB	190
	SXWSC2XSELXW	190
	SXWSC4XSELXB	190
	SXWSC4XSELXW	190
	SXWSCDXSELXB	190
	SXWSCDXSELXW	190
	SXWSCDXSELXX	190
eCommission Bluetooth Adaptor	SXWBTAECXX10001*	300

*The eCommission Bluetooth Adapter is used temporarily for commissioning and servicing only.

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