

SpaceLogic Sensors

Air Quality Sensors – BACnet and Modbus



Note: A subset of models shown.

Product Description

The SpaceLogic SLP Series of air quality sensors for living space is a flexible multisensor platform for use with BAS controllers designed to accept BACnet or Modbus outputs. Housings are available in Medium matte white and Optimum faces available in black and white. All housing types are available with three user interface options: touchscreen, LCD with three buttons and blank. CO₂ and temperature sensors are included with all SLP Series air quality sensors. Models with VOC sensors and relative humidity sensors are also available.

Features

- Medium matte white housing or optimum glass panel housing available in white or black
- Field calibratable non-dispersive infrared CO₂ sensor
- Replaceable RH element available in 1% & 2% with NIST certificate
- VOC sensor available
- Temperature output on all models
- 61 mm (2.4") backlit color touchscreen and LCD, three button display options available
 - Digital temperature indication (0.1° display resolution of °F or °C)
 - Digital humidity indication (0.1% RH display resolution)
 - Digital CO₂ indication (0 to 2000 ppm display resolution)
 - Selectable temp, RH and fan speed setpoint
 - Configurable screen/button lock and display timeout
 - Override
- Selectable BACnet MSTP and Modbus outputs via RS-485
- 18-24 AWG screw terminals

Available Products

Model Number	Description	User Interface	CO ₂ / VOC	Humidity	Housing Finish
SLPBLC2	SLP Prem HSG CO2 LCD/3 Button	LCD / 3 Buttons	NDIR CO2	2% RH Sensor	Optimum, Black
SLPBLCV2	SLP Prem HSG CO2 LCD/3 Button	LCD / 3 Buttons	NDIR CO2 / VOC	2% RH Sensor	Optimum, Black
SLPBLCVX	SLP Prem HSG CO2 LCD/3 Button	LCD / 3 Buttons	NDIR CO2 / VOC	None	Optimum, Black
SLPBLCX	SLP Prem HSG CO2 LCD/3 Button	LCD / 3 Buttons	NDIR CO2	None	Optimum, Black
SLPBTC2	SLP Prem HSG CO2 Touchscreen	Touchscreen	NDIR CO2	2% RH Sensor	Optimum, Black
SLPBTCV2	SLP Prem HSG CO2 Touchscreen	Touchscreen	NDIR CO2 / VOC	2% RH Sensor	Optimum, Black
SLPBTCVX	SLP Prem HSG CO2 Touchscreen	Touchscreen	NDIR CO2 / VOC	None	Optimum, Black
SLPBTCX	SLP Prem HSG CO2 Touchscreen	Touchscreen	NDIR CO2	None	Optimum, Black
SLPBXC2	SLP Prem HSG CO2 Blank	None	NDIR CO2	2% RH Sensor	Optimum, Black
SLPBXCV2	SLP Prem HSG CO2 Blank	None	NDIR CO2 / VOC	2% RH Sensor	Optimum, Black

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Available Products (cont.)

Model Number	Description	User Interface	CO2 / VOC	Humidity	Housing Finish
SLPBXCX	SLP Prem HSG CO2 Blank	None	NDIR CO2 / VOC	None	Optimum, Black
SLPBXCX	SLP Prem HSG CO2 Blank	None	NDIR CO2	None	Optimum, Black
SLPSLC2	SLP CO2 LCD/3 Button	LCD / 3 Buttons	NDIR CO2	2% RH Sensor	Medium, White
SLPSLCV2	SLP CO2 LCD/3 Button	LCD / 3 Buttons	NDIR CO2 / VOC	2% RH Sensor	Medium, White
SLPSLCVX	SLP CO2 LCD/3 Button	LCD / 3 Buttons	NDIR CO2 / VOC	None	Medium, White
SLPSLCX	SLP CO2 LCD/3 Button	LCD / 3 Buttons	NDIR CO2	None	Medium, White
SLPSTC2	SLP CO2 Touchscreen	Touchscreen	NDIR CO2	2% RH Sensor	Medium, White
SLPSTCV2	SLP CO2 Touchscreen	Touchscreen	NDIR CO2 / VOC	2% RH Sensor	Medium, White
SLPSTCVX	SLP CO2 Touchscreen	Touchscreen	NDIR CO2 / VOC	None	Medium, White
SLPSTCX	SLP CO2 Touchscreen	Touchscreen	NDIR CO2	None	Medium, White
SLPSXC2	SLP CO2 Blank	None	NDIR CO2	2% RH Sensor	Medium, White
SLPSXCV2	SLP CO2 Blank	None	NDIR CO2 / VOC	2% RH Sensor	Medium, White
SLPSXCVX	SLP CO2 Blank	None	NDIR CO2 / VOC	None	Medium, White
SLPSXCX	SLP CO2 Blank	None	NDIR CO2	None	Medium, White
SLPWLC2	SLP Prem HSG CO2 LCD/3 Button	LCD / 3 Buttons	NDIR CO2	2% RH Sensor	Optimum, White
SLPWLCV2	SLP Prem HSG CO2 LCD/3 Button	LCD / 3 Buttons	NDIR CO2 / VOC	2% RH Sensor	Optimum, White
SLPWLCVX	SLP Prem HSG CO2 LCD/3 Button	LCD / 3 Buttons	NDIR CO2 / VOC	None	Optimum, White
SLPWLCX	SLP Prem HSG CO2 LCD/3 Button	LCD / 3 Buttons	NDIR CO2	None	Optimum, White
SLPWTC2	SLP Prem HSG CO2 Touchscreen	Touchscreen	NDIR CO2	2% RH Sensor	Optimum, White
SLPWTCV2	SLP Prem HSG CO2 Touchscreen	Touchscreen	NDIR CO2 / VOC	2% RH Sensor	Optimum, White
SLPWTCVX	SLP Prem HSG CO2 Touchscreen	Touchscreen	NDIR CO2 / VOC	None	Optimum, White
SLPWTCX	SLP Prem HSG CO2 Touchscreen	Touchscreen	NDIR CO2	None	Optimum, White
SLPWXC2	SLP Prem HSG CO2 Blank	None	NDIR CO2	2% RH Sensor	Optimum, White
SLPWXC2	SLP Prem HSG CO2 Blank	None	NDIR CO2 / VOC	2% RH Sensor	Optimum, White
SLPWXCX	SLP Prem HSG CO2 Blank	None	NDIR CO2 / VOC	None	Optimum, White
SLPWXCX	SLP Prem HSG CO2 Blank	None	NDIR CO2	None	Optimum, White

Replaceable RH Elements

Model	RH Accuracy	Calibration Certificate	Description
SLXRHS1N	±1%	X	Replaceable RH Sensor, 1% w/NIST Cert
SLXRHS2N	±2%	X	Replaceable RH Sensor, 2% w/NIST Cert
SLXRHS2X	±2%		Replaceable RH Sensor, 2%

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Operating Environment

Input power	Class 2; 20 to 30 Vdc, 24 Vac, 50 to 60 Hz
Protocol output	BACnet or Modbus via RS-485, selectable
Operating temp. range	0 to 50 °C (32 to 122 °F)
Operating humidity range	0 to 95% RH non-condensing
Housing material	High impact ABS plastic
IP rating	IP 30

CO₂ Sensor

Sensor type	Non-dispersive infrared (NDIR), diffusion sampling
Output range	0 to 2000 ppm
Accuracy	±30 ppm ±3% of measured value
Repeatability	±20 ppm ±1% of measured value
Response time	<60 seconds for 90% step change

VOC Sensor

Sensor type	Solid state
Output range	0 to 100% AQI for VOC
Accuracy	±15% of measured value
Output scale	0 to 1,000 ppb of total VOC (TVOC)

	Level	Ventilation Recommendation	TVOC (ppb)
AQI table*	>61%	Greatly increased	>610
	20 to 61%	Significantly increased	200 to 610
	10 to 20%	Slightly increased	100 to 200
	5 to 10%	Average	50 to 100
	0 to 5%	Target value	0 to 50

RH Sensor

HS sensor	Thin-film capacitive, replaceable
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

Sensor type	Solid state, integrated circuit
Accuracy	±0.2 °C (±0.4 °F) typical
Resolution	0.1 °C (0.1 °F)
Range	0 to 50 °C (32 to 122 °F)

Display Models

Touchscreen	61 mm (2.4 in), color, backlit, capacitive, 240x300px Temperature, humidity or fan speed selectable Timeout override: Display timeout Lockout override: Touchscreen/button lockout
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LCD	52mm (2.05 in), segmented with 3 buttons Temperature, humidity or fan speed selectable Timeout override: Display timeout Lockout override: Touchscreen/button lockout
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Override

Override button	Display models feature momentary override button
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Wiring Terminals

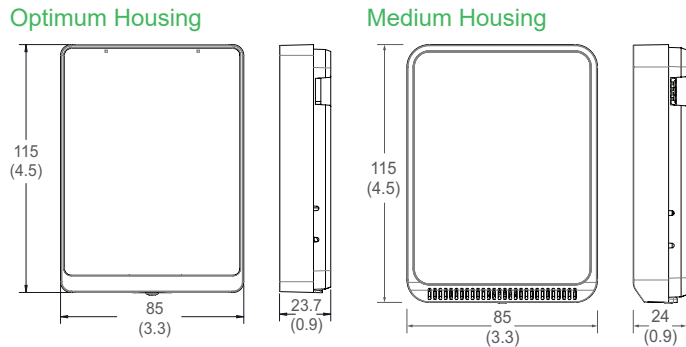
Terminal blocks	Screw terminals, 18-24 AWG
Screw terminal torque	0.2 N-m (2.0 in-lbF) max.

Regulatory Information

Agency approvals	UL 916, European conformance CE: EN61000-6-2 EN61000-6-3 EN61000 Series - industrial immunity EN 61326-1
	FCC Part 15 Class B, REACH, RoHS, Green Premium, RCM (Australia), ICES-003 (Canada), EAC (Russia)

* Air Quality Index for VOC aligns with TVOC levels for IAQ as specified by the WHO (World Health Organization).

Dimensions mm (in.)



Housing Finishes



User Interface Types



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Power Table

Model	Description	Max. VA
SLPxLCxx	LCD CO2/VOC/Temperature/Humidity	1.536
SLPxTCxx	Touch CO2/VOC/Temperature/Humidity	1.728
SLPxXCxx	Blank CO2/VOC/Temperature/Humidity	1.536

Note: Model numbers based on supported product matrix.

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