

SpaceLogic Sensors

Air Quality Sensors – Analog



Note: A subset of models shown.

Product Description

The SpaceLogic SLA Series of air quality sensors for living space is a flexible multisensor platform for use with BAS controllers designed to accept 4 to 20mA, 0 to 5Vdc or 0 to 10Vdc 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 SLA 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 (0-10V)
 - Configurable screen/button lock and display timeout
 - Override
- Selectable 4 to 20mA, 0 to 5V and 0 to 10V analog outputs
- 18-24 AWG screw terminals

Available Products

Model Number	Description	User Interface	CO ₂ / VOC	Humidity	Housing Finish
SLABLC2	SLA Prem HSG CO2 LCD/3 Button	LCD / 3 Buttons	NDIR CO ₂	2% RH Sensor	Optimum, Black
SLABLCV2	SLA Prem HSG CO2 LCD/3 Button	LCD / 3 Buttons	NDIR CO ₂ / VOC	2% RH Sensor	Optimum, Black
SLABLCVX	SLA Prem HSG CO2 LCD/3 Button	LCD / 3 Buttons	NDIR CO ₂ / VOC	None	Optimum, Black
SLABLCX	SLA Prem HSG CO2 LCD/3 Button	LCD / 3 Buttons	NDIR CO ₂	None	Optimum, Black
SLABTC2	SLA Prem HSG CO2 Touchscreen	Touchscreen	NDIR CO ₂	2% RH Sensor	Optimum, Black
SLABTCV2	SLA Prem HSG CO2 Touchscreen	Touchscreen	NDIR CO ₂ / VOC	2% RH Sensor	Optimum, Black
SLABTCVX	SLA Prem HSG CO2 Touchscreen	Touchscreen	NDIR CO ₂ / VOC	None	Optimum, Black
SLABTCX	SLA Prem HSG CO2 Touchscreen	Touchscreen	NDIR CO ₂	None	Optimum, Black
SLABXC2	SLA Prem HSG CO2 Blank	None	NDIR CO ₂	2% RH Sensor	Optimum, Black
SLABXC2	SLA Prem HSG CO2 Blank	None	NDIR CO ₂ / VOC	2% RH Sensor	Optimum, Black

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Available Products Matrix

Model Number	Description	User Interface	CO2 / VOC	Humidity	Housing Finish
SLABXCVX	SLA Prem HSG CO2 Blank	None	NDIR CO2 / VOC	None	Optimum, Black
SLABXCX	SLA Prem HSG CO2 Blank	None	NDIR CO2	None	Optimum, Black
SLASLC2	SLA CO2 LCD/3 Button	LCD / 3 Buttons	NDIR CO2	2% RH Sensor	Medium, White
SLASLCV2	SLA CO2 LCD/3 Button	LCD / 3 Buttons	NDIR CO2 / VOC	2% RH Sensor	Medium, White
SLASLCVX	SLA CO2 LCD/3 Button	LCD / 3 Buttons	NDIR CO2 / VOC	None	Medium, White
SLASLCX	SLA CO2 LCD/3 Button	LCD / 3 Buttons	NDIR CO2	None	Medium, White
SLASTC2	SLA CO2 Touchscreen	Touchscreen	NDIR CO2	2% RH Sensor	Medium, White
SLASTCV2	SLA CO2 Touchscreen	Touchscreen	NDIR CO2 / VOC	2% RH Sensor	Medium, White
SLASTCVX	SLA CO2 Touchscreen	Touchscreen	NDIR CO2 / VOC	None	Medium, White
SLASTCX	SLA CO2 Touchscreen	Touchscreen	NDIR CO2	None	Medium, White
SLASXC2	SLA CO2 Blank	None	NDIR CO2	2% RH Sensor	Medium, White
SLASXCV2	SLA CO2 Blank	None	NDIR CO2 / VOC	2% RH Sensor	Medium, White
SLASXCVX	SLA CO2 Blank	None	NDIR CO2 / VOC	None	Medium, White
SLASXCX	SLA CO2 Blank	None	NDIR CO2	None	Medium, White
SLAWLC2	SLA Prem HSG CO2 LCD/3 Button	LCD / 3 Buttons	NDIR CO2	2% RH Sensor	Optimum, White
SLAWLCV2	SLA Prem HSG CO2 LCD/3 Button	LCD / 3 Buttons	NDIR CO2 / VOC	2% RH Sensor	Optimum, White
SLAWLCVX	SLA Prem HSG CO2 LCD/3 Button	LCD / 3 Buttons	NDIR CO2 / VOC	None	Optimum, White
SLAWLCX	SLA Prem HSG CO2 LCD/3 Button	LCD / 3 Buttons	NDIR CO2	None	Optimum, White
SLAWTC2	SLA Prem HSG CO2 Touchscreen	Touchscreen	NDIR CO2	2% RH Sensor	Optimum, White
SLAWTCV2	SLA Prem HSG CO2 Touchscreen	Touchscreen	NDIR CO2 / VOC	2% RH Sensor	Optimum, White
SLAWTCVX	SLA Prem HSG CO2 Touchscreen	Touchscreen	NDIR CO2 / VOC	None	Optimum, White
SLAWTCX	SLA Prem HSG CO2 Touchscreen	Touchscreen	NDIR CO2	None	Optimum, White
SLAWXC2	SLA Prem HSG CO2 Blank	None	NDIR CO2	2% RH Sensor	Optimum, White
SLAWXCV2	SLA Prem HSG CO2 Blank	None	NDIR CO2 / VOC	2% RH Sensor	Optimum, White
SLAWXCVX	SLA Prem HSG CO2 Blank	None	NDIR CO2 / VOC	None	Optimum, White
SLAWXCX	SLA 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
Analog output	Selectable 4 to 20 mA, 0 to 5 V, 0 to 10 V
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 2000/5000 ppm (selectable)
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)
		>61%	Greatly increased
AQI table*	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)
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Display Models	
Touchscreen	61 mm (2.4 in), color, backlit, capacitive, 240x300px Setpoint: 0-10Vdc. Temperature, humidity or fan speed selectable Timeout override: Display timeout** Lockout override: Touchscreen/button lockout**
LCD	52mm (2.05 in), segmented with 3 buttons Setpoint: 0-10Vdc. Temperature, humidity or fan speed selectable Timeout override: Display timeout** Lockout override: Touchscreen/button lockout**

Setpoints***	
Temperature setpoint	0 to 10V output Scale: 10 to 35 °C (50 to 95 °F) / 0 to 50 °C (32 to 122 °F)
Humidity setpoint	0 to 10V output Scale: 0 to 100% RH
Fan speed setpoint	0 to 10V output Off 0V, Low 3.3V, Med. 6.7V, High 10.0V

Override	
Override button	Display models feature momentary-to-ground override button

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

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

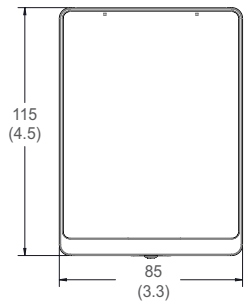
* Air Quality Index for VOC aligns with TVOC levels for IAQ as specified by the WHO (World Health Organization).

** DIP switch selectable.

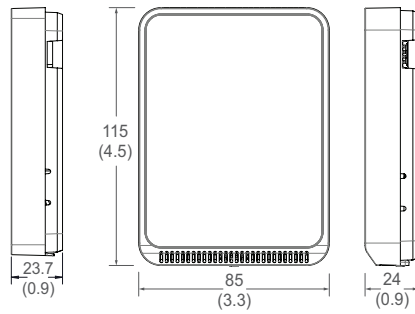
*** One setpoint type is selectable via DIP switch on display models only.

Dimensions mm (in.)

Optimum Housing



Medium Housing



Power Table

Model	Description	Max. VA
SLAxLCxx	LCD CO2/VOC/Temperature/Humidity	3.312
SLAxTCxx	Touch CO2/VOC/Temperature/Humidity	3.504
SLAxXCxx	Blank CO2/VOC/Temperature/Humidity	3.312

Note: Model numbers based on supported product matrix.

Housing Finishes



Optimum White



Optimum Black



Medium White

User Interface Types



Touchscreen



LCD with Buttons



Blank