

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)
 - Stoplight feature for visual indication at user-configurable CO₂ threshold levels (touchscreen models only)
 - 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 CO ₂ LCD/3 Button	LCD / 3 Buttons	NDIR CO ₂	2% RH Sensor	Optimum, Black
SLABLCV2	SLA Prem HSG CO ₂ LCD/3 Button	LCD / 3 Buttons	NDIR CO ₂ / VOC	2% RH Sensor	Optimum, Black
SLABLCVX	SLA Prem HSG CO ₂ LCD/3 Button	LCD / 3 Buttons	NDIR CO ₂ / VOC	None	Optimum, Black
SLABLCX	SLA Prem HSG CO ₂ LCD/3 Button	LCD / 3 Buttons	NDIR CO ₂	None	Optimum, Black
SLABTC2	SLA Prem HSG CO ₂ Touchscreen	Touchscreen	NDIR CO ₂	2% RH Sensor	Optimum, Black
SLABTCV2	SLA Prem HSG CO ₂ Touchscreen	Touchscreen	NDIR CO ₂ / VOC	2% RH Sensor	Optimum, Black
SLABTCVX	SLA Prem HSG CO ₂ Touchscreen	Touchscreen	NDIR CO ₂ / VOC	None	Optimum, Black
SLABTCX	SLA Prem HSG CO ₂ Touchscreen	Touchscreen	NDIR CO ₂	None	Optimum, Black
SLABXC2	SLA Prem HSG CO ₂ Blank	None	NDIR CO ₂	2% RH Sensor	Optimum, Black
SLABXCV2	SLA Prem HSG CO ₂ 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)		
AQI table*	Level	Ventilation Recommendation	TVOC (ppb)
	>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 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, Auto 1.5V, 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	
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)

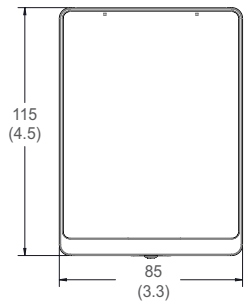
* Air Quality Index for VOC aligns with TVOC levels for IAQ as specified by the WHO (World Health Organization).

** DIP switch selectable.

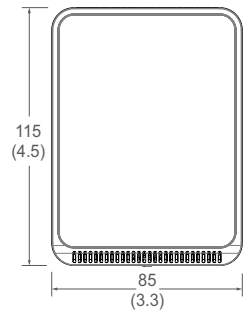
*** One setpoint type is selectable via DIP switch on display models only.

Dimensions mm (in.)

Optimum Housing



Medium Housing



Housing Finishes



Optimum White



Optimum Black



Medium White

User Interface Types



Touchscreen



LCD with Buttons



Blank

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.