

# SpaceLogic Sensors

## Humidity Sensors – Analog



Note: A subset of models shown.

### Product Description

The SpaceLogic SLA Series of humidity 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. Humidity and temperature sensors are included with all SLA Series air quality sensors.

### Features

- Medium matte white housing or optimum glass panel housing available in white or black
- Replaceable RH element available in 1% & 2% with NIST certificate
- Analog temperature transmitter 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)
  - 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	RH*	Temp	Housing	User Interface
SLAWTX2	X	X	Optimum White	Touchscreen
SLAWLX2	X	X	Optimum White	LCD / 3 Buttons
SLAWXX2	X	X	Optimum White	Blank
SLABTX2	X	X	Optimum Black	Touchscreen
SLABLX2	X	X	Optimum Black	LCD / 3 Buttons
SLABXX2	X	X	Optimum Black	Blank
SLASTX2	X	X	Medium White	Touchscreen
SLASLX2	X	X	Medium White	LCD / 3 Buttons
SLASXX2	X	X	Medium White	Blank

\* RH elements are replaceable.

### Replaceable RH Elements

Model Number	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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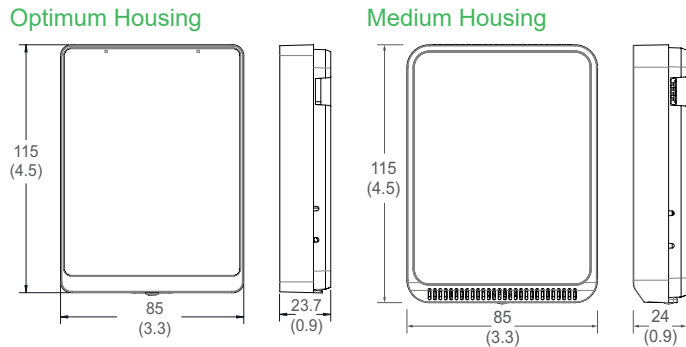
## Specifications

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
RH Sensor Option	
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	
	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)

\* DIP switch selectable.  
 \*\* One setpoint type is selectable via DIP switch on display models only.  
 \*\*\* Does not appear on temperature-only models.

## Dimensions mm (in.)



## Housing Finishes



## User Interface Types



## Power Table

Model	Description	Max. VA
SLAxLxxx	LCD Temperature/Humidity	2.856
SLAxTxxx	Touch Temperature/Humidity	3.024
SLAxXxxx	Blank Temperature/Humidity	2.856

Note: Model numbers based on supported product matrix.

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