SpaceLogic Sensors
SLA Series 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
Mounting location	For indoor use only. Not suitable for wet locations.
Surface mount	The device can be surface mounted on Single Gang J-Box, British Standard and CE60 wall boxes
RH Sensor Option	
HS sensor	Solid state capacitive, replaceable
Accuracy (includes hysteresis)*	±3.8% RH from 10 to 60% RH @ 25°C (77 °F) ±4.8% RH from 60 to 80% RH @ 25°C (77 °F) ±5.8% RH from 80 to 100% RH @ 25°C (77 °F)
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), UKCA (UK)

* Humidity sensor overall accuracy should include: accuracy, temperature coefficient and stability. Humidity accuracy is shown as an absolute value, so if testing accuracy with a hand-held device, you must check for deviation in its readings instead of calculating the percentual deviation. Additionally, you must consider the overall accuracy of the hand-held device in the comparison.
** Does not appear on temperature-only models.
*** DIP switch selectable.
**** One setpoint type is selectable via DIP switch on display models only.

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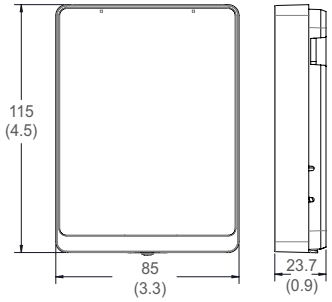
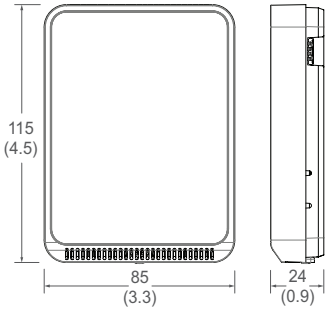
Dimensions mm (in.)

Optimum Housing



Medium Housing



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.

Housing Finishes

Optimum White

Optimum Black

Medium White

User Interface Types

Touchscreen

LCD with Buttons

Blank

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