SpaceLogic Sensors
Humidity Sensors – BACnet and Modbus

Note: A subset of models shown.

Product Description

The SpaceLogic SLP Series of humidity sensors for living space is a flexible multisensor platform for use with BAS controllers designed to accept BACnet MSTP 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. Humidity and temperature sensors are included with all SLP 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
- 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
  - Configurable screen/button lock and display timeout
  - Override
- Selectable BACnet and Modbus outputs via RS-485
- 18-24 AWG screw terminals

Available Products

Model Number	RH*	Temp	Housing	User Interface
SLPWTX2	X	X	Optimum White	Touchscreen
SLPWLX2	X	X	Optimum White	LCD / 3 Buttons
SLPWXX2	X	X	Optimum White	Blank
SLPBTX2	X	X	Optimum Black	Touchscreen
SLPBLX2	X	X	Optimum Black	LCD / 3 Buttons
SLPBXX2	X	X	Optimum Black	Blank
SLPSTX2	X	X	Medium White	Touchscreen
SLPSLX2	X	X	Medium White	LCD / 3 Buttons
SLPSXX2	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
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

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: 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: Temperature, humidity or fan speed selectable Timeout override: Display timeout Lockout override: Touchscreen/button lockout

Setpoints*

Temperature setpoint	Scale: 0 to 50 °C (32 to 122 °F) max., adjustable span
Humidity setpoint	Scale: 0 to 100% RH
Fan speed setpoint	Off, Low, Med., High

Override

Override button	Display models feature momentary 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)

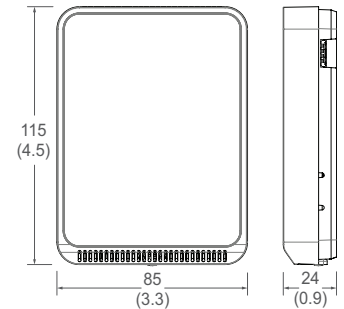* On display models only.

Dimensions mm (in.)

Optimum Housing
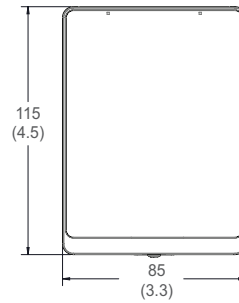
Medium Housing

Housing Finishes

Optimum White   Optimum Black   Medium White

User Interface Types

Touchscreen   LCD with Buttons   Blank

Power Table

Model	Description	Max. VA
SLPxLxx	LCD Temperature/Humidity	1.08
SLPxTxxx	Touch Temperature/Humidity	1.248
SLPxXxxx	Blank Temperature/Humidity	1.08

Note: Model numbers based on supported product matrix.

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