

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, 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)

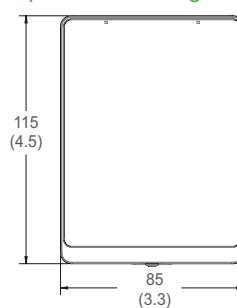
* DIP switch selectable.

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

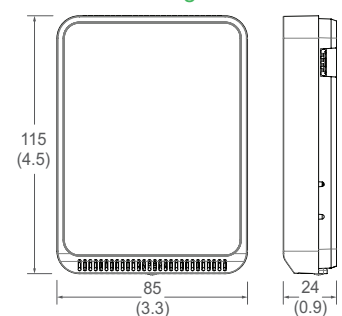
*** Does not appear on temperature-only models.

Dimensions mm (in.)

Optimum Housing



Medium Housing



Housing Finishes



Optimum White



Optimum Black



Medium White

User Interface Types



Touchscreen



LCD with Buttons



Blank

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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.