

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 |

*Replaceable RH module available to be ordered separately per table below.

Replaceable RH Elements

| Model | Description | Temp. Calibration | RH Calibration |
|----------|---|-------------------|---------------------|
| SLXRHS2N | Replaceable RH sensor, 2% with NIST certificate | N/A | 2-point calibration |
| SLXRHS2X | Replaceable RH sensor, 2% | N/A | 2-point calibration |
| SLXRHS1N | Replaceable RH sensor, 1% with NIST certificate | N/A | 2-point calibration |

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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 | |
| Sensor type | Solid state capacitive, replaceable |
| Output range | 0 to 100% RH |
| 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) |
| Resolution | 0.1% RH |
| Linearity | Included in accuracy specification |
| Stability | ±1% @ 20°C (68 °F) annually for 2 years |
| Temperature coefficient | ±0.1% RH/°C above or below 25 °C (77 °F) typical |
| Temperature Sensor | |
| Sensor type | Solid state, integrated circuit |
| Output range | 0 to 50 °C (32 to 122 °F) |
| Accuracy | ±0.2 °C (±0.4 °F) typical |
| Resolution | 0.1 °C (0.1 °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: EN 60730-1, EN 60730-2-9, EN 60730-2-13, EN 61000-6-2, EN 61000-6-3, EN 61000 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.

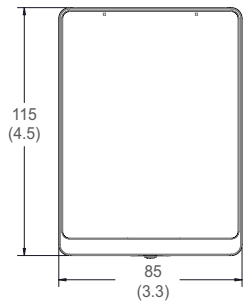
*** DIP switch selectable.

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

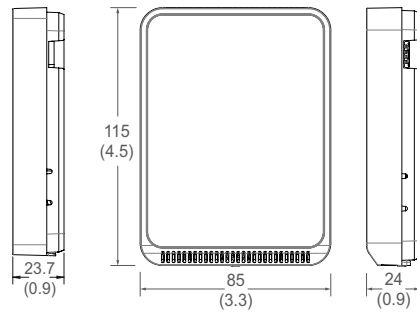
Note: This product is specified for environments with stable natural airflow. In dynamic airflow conditions, sensor performance may deviate from expected values. In stable elevated airflow, an offset feature can be applied. Refer to ZL0241-xx, *Field Offset Adjustment Procedure for SLA and SLP Temperature and Humidity Outputs* on www.se.com/myschneider for further information. The offset functionality only exists on units containing a second DIP switch bank dedicated to the offset feature.

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