



SMART-Sensor™ LCD

Interactive Sensor

Connect with your space

A compliment to any room, the Reliable Controls® SMART-Sensor™ LCD (SSL) series delivers a communicating sensor solution that allows you to connect with up to ten configurable parameters related to your space.



Better by design



www.reliablecontrols.com/SSL

TECH SPECS

Supply Voltages (from controller)

- SSL – 5 VDC @ 5 mA
- SSL-IO – 5 VDC @ 15 mA

Display

- Four 0.6" digits, Six 0.3" characters
- Six icons: Auto, Manual, Cool, Heat, Fan, and Fan Speed
- Display area 36 mm x 36 mm (1 3/8" x 1 3/8")

Temperature Specifications

- 12-bit A/D converter
- Range: 0 °C to 40 °C (32 °F to 104 °F)
- ± 0.1 °C (0.18 °F) resolution
- User calibrated to ± 0.1 °C (0.18 °F) accuracy

Humidity Range (for -H models)

- 0.1% resolution
- 10–90% range
- ± 1.8% RH accuracy

Occupancy Sensor (for -OC models)

- Passive Infrared Radiation (PIR) sensor
- 64 detection zones
- 100° horizontal range / 82° vertical range
- 5 m (16.4 ft.) max. detection distance

Buttons

- 3 custom silicon rubber buttons
- Button functions: select, plus, and minus

Inputs

- Dedicated temperature sensor
- 2 thermistor or dry contact (on -IO models)

Outputs (for -IO models)

- 2 digital TRIAC
- 24 VAC @ 0.5 A

SMART-Network

- 16 SMART-Sensors per MACH-ProCom/Sys/Web, MACH-Global™ and MACH2™
- 8 SMART-Sensors per MACH1™
- 4 SMART-Sensors per MACH-Zone™, MACH-Air™ and MACH-Stat/ND
- Maximum of one SSL-ND per SMART-Net

Dimensions

- 12 cm L x 7 cm W x 2.4 cm H (4 3/4" L x 2 3/4" W x 15/16" H)

Weight

- 0.09 kg (0.195 lb.)

Ambient Limits

- Operating: 0 °C to 40 °C (32 °F to 104 °F)
- Shipping: -40 °C to 60 °C (-40 °F to 140 °F)
- Humidity: 10% to 90% RH non-condensing

FEATURES

Aesthetic Design

- Smooth contoured lines
- Slim profile

Easy Programming

- 10 programmable points (e.g., input, output, or variables)
- Up to 7 points can be displayed on the screen at once
- Values can be programmed for adjustment by user, or for display only
- Points 1 and 3 can be configured to display on the LCD screen simultaneously
- Dedicated LCD icons for the display of: Auto, Manual, Cool, Heat, Fan, and Fan Speed

Large Liquid Crystal Display

- Displays time, analog, or digital values
- Optionally configured to blank the display after 10 seconds of idle time

Connection & Addressing

- Configure network address of SMART-Sensor™ LCD using front buttons in programming mode
- Valid addresses are 1–16
- Easy 4 or 6 wire connection (six wire required for use with X-Port-2™)

Network Access

- An RJ-11 connector on the bottom provides access to host network (X-Port-2™ required)

Built-in Configuration Tools

- User enabled configuration tools allow an operator to conveniently view and adjust setup parameters of the SSL and host controller

Optional I/O

- Up to 2 thermistor or dry contact inputs, and up to 2 digital TRIAC outputs

Optional Humidity

- Accurate onboard humidity sensor

Optional Occupancy

- Extremely compact sensor, ideal for detecting the motion of a person up to 5 m (16 ft.) away

Warranty

- 5 years
- 1 year for humidity sensor

Certification

- FCC CFR 47 Part 15 Class B

ORDERING

SSL (base model)

- SMART-Sensor™ LCD with onboard thermistor

SSL-ND

- Base model with no display. This model is factory set with an address of 1. Only one SSL-ND per SMART-Net is possible.

Options

- H adds humidity sensor
- IO adds 2 inputs and 2 TRIAC outputs
- OC adds occupancy sensor
- /W for white enclosure
- e.g., SSL/W-H-OC

