Code No. LIT-1900781
Issued January 30, 2013

LN Series Communicating Sensors

Description

The LN Series Communicating Sensors are designed to interface with the LN Series Variable Air Volume (VAV) LN-VAVCF-12 controller and the LN Series Free Programmable LN-PRGxxx-12 controllers. The two sensor models provide precision local temperature sensing, system status information, and a variety of control functions. In addition, the LN-SVSENH-0 model allows you to monitor humidity level.

Through the user-friendly interface, you can view and adjust environmental settings; for example, you can view the temperature, adjust the setpoint, and apply occupancy overrides.

Features

- Leaf Icon provides immediate feedback and encourages greener energy habits while reducing costs.
- Quick VAV controller commissioning enables faster application selection and commissioning of Variable Air Volume (VAV) controllers.
- Slim, compact style provides a welcome addition to room ambience.
- Easy access local area network jack provides a direct connection to the controller network for advanced commissioning and troubleshooting. No need to remove controller cover.
- Occupancy control extends normal system operating times for people working outside of normal hours; saves energy.
- Override capability allows you to override the HVAC mode, and view and adjust the setpoint and fan speed for more comfort.
- Clear, bright LCD display provides real-time access to temperature and other system information such as setpoint, occupancy status, and HVAC mode.
- Power and communication on a single CAT5e cable helps reduce installation costs and produces easier installation or system retrofit.
- Various mounting scenarios allow installation directly on drywall or on a North American, European, or Asian style junction box.

Applications

The LN Series Communicating Sensors provide precise environmental zone control for temperature and humidity (LN-SVSENH-0 model only) with the various controller applications.

In the password-protected technician mode, you can perform commissioning, troubleshooting, and other functions such as setting a controller's address, configuring controller applications, or performing VAV airflow balancing.

The LN-SVSENx-0 Sensor is designed for use either as a handheld tool or a wall-mounted unit.

LN Series Communicating Sensor

Repair Information

If the LN Series Communicating Sensors fails to operate within specifications, replace the unit. For a replacement unit, contact the nearest Johnson Controls® representative.

Selection Chart

Product Code Number	Description
LN-SVSEN-0	Communicating sensor for use with the LN-PRGxxx-12 or LN-VAVCF-12 controllers; temperature only.
LN-SVSENH-0	Communicating sensor for use with the LN-PRGxxx-12 or LN-VAVCF-12 controllers; temperature and humidity.

Technical Specifications

LN Series Communicating Sensors	
Product Code	LN-SVSEN-0, LN-SVSENH-0
Power Requirement	**Voltage:** 16 Vdc maximum, Class 2 **Power:** 400 mW typical
LCD Display	**Type:** 1.85 x 1.1.8 in. (47 mm x 30 mm) with backlight **Symbols:** language-dependent icons for mode and operating status **Temperature Resolution:** ±0.1°C; ±0.1°F
Environmental	**Operating Temperature:** 5° to 40°C; 41° to 104°F **Storage Temperature:** -20° to 50°C; -4° to 122°F **Relative Humidity:** 0 to 95% noncondensing
Enclosure	**Material:** ABS type PA-765A **Color:** White **Dimensions (overall):** 3.29 x 4.62 x 1.06 in. (83.55 x 117.27 x 26.83 mm) **Shipping weight:** 0.4 lb (0.18 kg) **Installation:** wall mounting through mounting holes
Temperature Sensor	**Types:** 10k ohms NTC Thermistor **Range:** 5° to 40°C; 41° to 104°F **Accuracy:** ±0.5°C; ±0.9°F **Resolution:** 0.1°C; 0.18°F
Humidity Sensor	**Accuracy:** ±3% **Resolution:** 1%

The performance specifications are nominal and conform to acceptable industry standards. For applications at conditions beyond these specifications, consult the local Johnson Controls office. Johnson Controls, Inc. shall not be liable for damages resulting from misapplication or misuse of its products. © 2013 Johnson Controls, Inc.

LN Series Communicating Sensors (Continued)

LN Series Communicating Sensors	
Communications	**Rate:** 38,400 bps **Communications:** RS-485 Wiring: Cable length: 200 m (650 ft) maximum Cable Type: T5688B Cat5e network cable, 4 twisted pairs Connectors: IN: RJ-45 OUT: RJ-45 (pass-through for daisy chain connection) Network Access Jack: 3.5 mm (1/8 in.) stereo plug connector Daisy-chaining: Ranging from 4 to 12 LN-SVSENx-0 sensors depending on the controller model — refer to controller's Product Bulletin
Electromagnetic Compatibility	**CE:** EN 61000-6-3: 2007 EN 61000-6-1: 2007 **FCC:** Part 15, subpart B class B
Agency Compliance	United States: UL Listed: UL916 Energy management equipment **Material:** UL94V-1
	Canada: UL Listed: UL916 Energy management equipment **Material:** UL94V-1

The performance specifications are nominal and conform to acceptable industry standards. For applications at conditions beyond these specifications, consult the local Johnson Controls office. Johnson Controls, Inc. shall not be liable for damages resulting from misapplication or misuse of its products. © 2013 Johnson Controls, Inc.