LIEBERT® SN™ INTEGRATED SENSORS
Quick Installation Guide

VERTIV™

The Liebert SN integrated sensors monitor temperature and humidity in any area.

These instructions apply to the following Liebert SN integrated-sensor models:

- SN-Z01—integrated cable with 1 temperature probe
- SN-Z02—integrated cable with 3 temperature probes
- SN-Z03—integrated cable with 4 probes: 3 temperature and 1 humidity

SENSOR-STRING COMPATIBLE

You can attach the sensors in a string, and the string can be a combination of integrated and modular sensors. (Modular sensors are single probes with a separate cable.)

A string may include up to 10 probes and be a maximum of 65.6 ft (20 m).

The number of probes that may be used with Liebert monitoring products varies. Refer to the product's user guide for details.

PREPARE FOR INSTALLATION

1. **Record the address of each sensor**

   During configuration, the web user interface displays the addresses of all connected sensors.
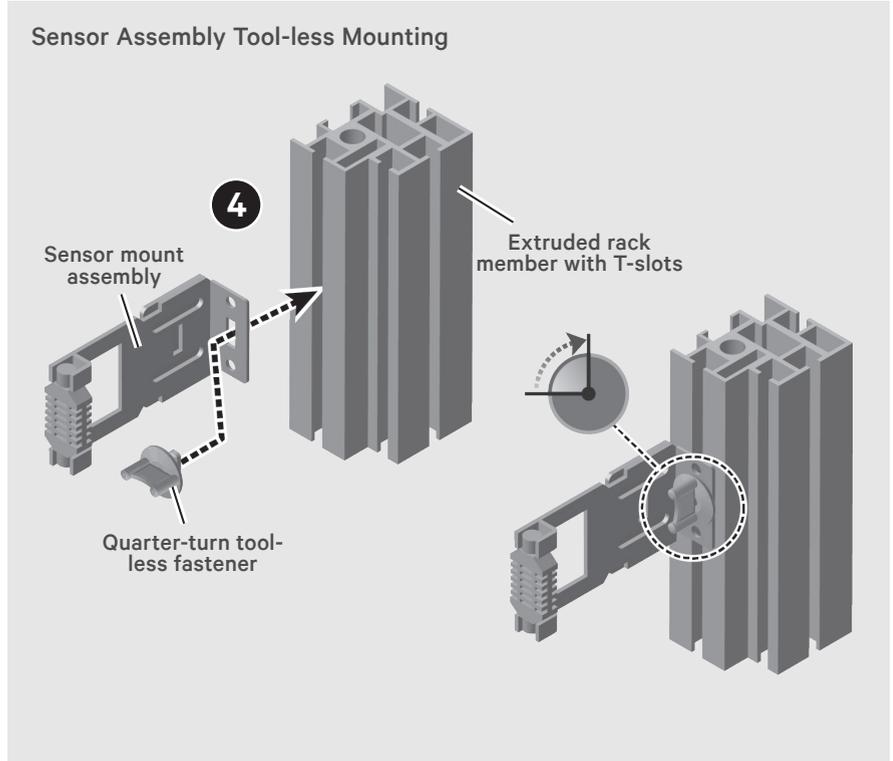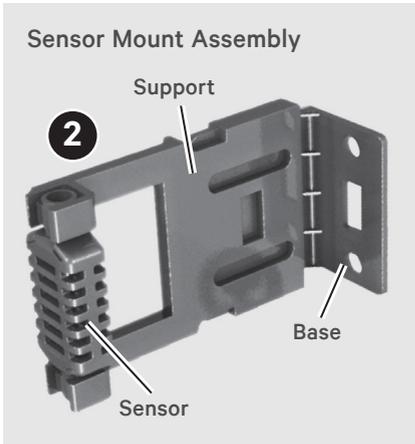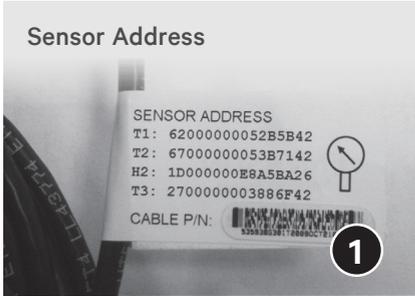
   Before mounting or connecting, locate the sensor-address list on the label near the RJ45-end of the integrated cable (see the picture on the following page). An address is listed for each temperature and humidity sensor

Liebert Sensor, Cable and Mount

Included Parts Quantity by Model Number

Part	SN-Z01	SN-Z02	SN-Z03
Temperature sensor	1	3	3
Humidity sensor	—	—	1
Total number of probes	1	3	4
Sensor-bracket base	1	3	3
Sensor-bracket support	1	3	3
Screws, 8-32 x 7/16	2	6	6
Dual Lock™ fastener, 0.5 ft (0.15 m)	1	1	1
Cable ties	2	6	6
Alcohol pads	1	3	3
Quarter-turn High Pro fastener	1	3	3

Sensor Address

SENSOR ADDRESS
T1: 62000000052B5B42
T2: 67000000053B7142
H2: 1D000000E8A5BA26
T3: 2700000003886F42
CABLE P/N:

Sensor Mount Assembly

Support

Sensor

Base

Sensor Assembly Tool-less Mounting

Sensor mount assembly

Quarter-turn tool-less fastener

Extruded rack member with T-slots

2. Assemble the sensor and bracket

If using the supplied bracket and base:

- Insert the support base into the end of the support.
- Snap the sensor into the other end of the support.

3. Choose a mounting location

Keeping in mind that the temperature and humidity sensors require an unobstructed air flow, and that the sensor does not obstruct vents and impede air flow, select a mounting location. The installation parts needed for various mounting options are included with the sensor. You can install the sensor on rack rails, rack doors, and on a flat surface.

MOUNT THE SENSOR

Use the step appropriate to your chosen mounting method:

4. Mounting on a Knurr® Rack-frame or 19-in. Rail

Insert the quarter-turn, tool-less fastener a slot on the support or base, place the bracket on the frame or rail, and turn the fastener clockwise (1/4 turn) to secure the sensor in place.

5. Mounting on rack door

- On a Knurr rack (only), use the supplied screws through the slots on the support or frame base to secure the sensor to the door.
- On all other racks (including Knurr), use cable ties to secure the sensor or support bracket to the door.

6. Mounting on a flat surface

Clean the mounting location with the supplied alcohol pad(s), then affix the sensor support to the surface using the supplied Dual Lock fasteners.

7. Mounting on a rack rail

This method requires a standard, pan-head rack screw, not supplied with the sensor.

Use the pan-head rack screw through a slot on the sensor support or base to secure the sensor in place.

CONNECT THE SENSOR

The integrated cable connects to the SN Sensor port on your Liebert product. The Liebert SN sensor ports are RJ45 ports designated with the sensor-port icon.

NOTE: *Only use the SN sensor port to connect Liebert SN sensors.*

CONFIGURE THE SENSOR

Using the sensor address(es) recorded before installation, use the web user interface of your Liebert product to acknowledge the senor connection and configure parameters including labeling the sensor and setting thresholds for alarm/warning triggers.

SPECIFICATIONS

Dimensions, W x D x H	2 x 3/4 x 1-5/8 in (51 x 19 x 41 mm)
Net Weight	0.25 lb (0.11 kg)
Shipping Weight	0.44 lb (0.2 kg)

Temperature Sensor (all models)

Ambient Operating Environment	41°F to 131°F (5°C to 55°C)
Sensor Range	41°F to 131°F (5°C to 55°C)
Accuracy	±1.1°F (±0.5°C)

Humidity Sensor (SN-Z03 models only)

Operating Altitude	Up to 6,000 ft (2,000 m)
Senso1r Range	10% to 95% RH (non-condensing)
Accuracy	±3.5% RH

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