

## **FCC Statement**

FCC ID: WR3SS001XNA

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

### FOR MOBILE DEVICE USAGE (>20cm/low power)

#### Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

#### WARRANTY/DISCLAIMER

OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of 13 months from date of purchase. OMEGA's WARRANTY adds an additional one (1) month grace period to the normal one (1) year product warranty to cover handling and shipping time. This ensures that OMEGA's customers receive maximum coverage on each product.

If the unit malfunctions, it must be returned to the factory for evaluation, OMEGA's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective, it will be repaired or replaced at no charge. OMEGA's WARRANTY does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of having been damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components in which wear is not warranted, include but are not limited to contact points, fuses,

OMEGA is pleased to offer suggestions on the use of its various products. However, OMEGA neither assumes responsibility for any omissions or errors nor assumes liability for any damages that result from the use if its products in accordance with information provided by OMEGA, either verbal or written. OMEGA warrants only that the parts manufactured by the company will be as specified and free of defects. OMEGA MAKES NO OTHER WARRANTIES OR REPRESENTATIONS OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED, EXCEPT THAT OF TITLE, AND ALL IMPLIED WARRANTIES INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. LIMITATION OF LIABILITY: The remedies of purchaser set forth herein are exclusive, and the total liability of OMEGA with respect to this order, whether based on contract, warranty, negligence, indemnification, strict liability or otherwise, shall not exceed the purchase price of the component upon which liability is based. In no event shall OMEGA be liable for consequential, incidental or special damages.

CONDITIONS: Equipment sold by OMEGA is not intended to be used, nor shall it be used: (1) as a "Basic Component" under 10 CFR 21 (NRC), used in or with any nuclear installation or activity; or (2) in medical applications or used on humans. Should any Product(s) be used in or with any nuclear installation or activity, medical application, used on humans, or misused in any way, OMEGA assumes no responsibility as set forth in our basic WARRANTY/DISCLAIMER language, and, additionally, purchaser will indemnify OMEGA and hold OMEGA harmless from any liability or damage whatsoever arising out of the use of the Product(s)

#### RETURN REQUESTS/INQUIRIES

Direct all warranty and repair requests/inquiries to the OMEGA Customer Service Department. BEFORE RETURNING ANY PRODUCT(S) TO OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OMEGA'S CUSTOMER SERVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING DELAYS). The assigned AR number should then be marked on the outside of the return package and on any correspondence.

please have the following information available BEFORE charges. Have the following contacting OMEGA:

- 1. Purchase Order number under which the product was PURCHASED.
- 2. Model and serial number of the product under warranty, and
- 3 Renair instructions and/or specific problems relative to the product.

FOR WARRANTY RETURNS, FOR NON-WARRANTY REPAIRS, consult OMEGA for current repair information available BEFORE contacting OMEGA:

- Purchase Order number to cover the COST of the repair or calibration.
- Model and serial number of the product, and
- Repair instructions and/or specific problems relative to the product.

OMEGA's policy is to make running changes, not model changes, whenever an improvement is possible. This affords our custo the latest in technology and engineering.

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**QUICK START** CF

**SS-001** Layer N TH/THBL Smart Sensor

# **CE OMEGA**

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For Other Locations Visit omega.com/worldwide

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## Introduction

Use this Quick Start Guide to set up your Layer N SS-001 Smart Sensor. For additional information regarding your SS-001, refer to the User Manual available on the Omega website.

## Materials

## Included with your Layer N SS-001

- Layer N SS-001 Unit
- Quick Start Guide
- 2x AA Alkaline Batteries
- Antenna

### **Additional Materials Needed**

- Laver N Gateway
- Any device with web browser access
- A registered user account with cloud.omega.com

## **Optional Materials**

- Mini USB 2.0 cable
- SYNC Configuration software
- PC or Laptop with an open USB port running SYNC

# Components of the Layer N Smart Sensor





Note: The battery compartment is located on the underside of the sensor unit

# Before you Begin

Before you begin setting up your SS-001, ensure the following prerequisites are met:

- Navigate to cloud.omega.com on any device with a web browser and sign in to your account.
- Ensure your Layer N Gateway is powered on and connected to your registered Layer N Cloud user account.

# Laver N Smart Sensor Setup

Step 1: Install the antenna to the side of the connector on the Smart Sensor.

Step 2: Insert 2x AA batteries into the battery compartment.



Important: The battery polarity is marked / I \ inside the compartment. Promptly remove dead batteries to prevent loss of data and potential damage due to leaking batteries.

The Pairing Button of the Smart Sensor will power up to a solid orange LED light in the center of the pairing button indicating that the device has been successfully powered

# Connecting to your Layer N Gateway

Once the Pairing Button displays a solid orange LED light in the center of the pairing button, your smart sensor is ready to be connected to a Layer N Gateway.

Step 1: Push the pairing button once and the LED will begin to flash green (for up to 2 minutes).

Step 2: Quickly push the pairing button on the Gateway once and its LED will also flash green.

When the Smart Sensor has been successfully paired to your Layer N Gateway, the green LEDs on both devices will stop flashing within 2 minutes.

The Smart Sensor LED will flash green each time data is sent to the gateway, depending on your subscription level.

As measurements are transmitted, you will begin to see data appearing on the Layer N Cloud web interface. The number of measurement displays depends on the type of sensor purchased and the frequency of measurement updates depends on your Layer N Cloud subscription level. The transmission interval can also be adjusted from the Layer N Cloud interface.

# Layer N Cloud Interface

Once your smart sensor has successfully connected to your gateway, your smart sensor will appear on the Layer N Cloud interface and begin transmitting data.



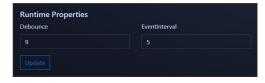
The transmission interval can also be adjusted from the Layer N Cloud interface.

Step 1: From your Layer N Cloud homepage, click on the Smart Sensor whose transmission interval you wish to

Step 2: Click the Settings icon.



Step 3: Adjust the Runtime Properties to fit your configuration needs.



Congratulations! You have successfully connected your Layer N Smart Sensor to your Layer N ecosystem.

For additional information on the customizable features made available through the USB connector, continue to the sections titled Smart Sensor USB Connector and Advanced Configuration with SYNC.

## Smart Sensor USB Connector

The SS-001 Series of Layer N Smart Sensors come standard with a mini USB 2.0 connector. The USB connector can be used to power the device to activate Range Boost mode and can be used to configure the device using SYNC configuration software.



**Important:** Do not leave the battery in the unit ✓ I \ if powering the device by USB.

### Range Boost Mode

When powering the device by USB for North American models, the Smart Sensor will also enter a Range Boost mode which will enhance the wireless range or coverage of the Smart Sensor up to 3.2 km\*.

\*Clear line of sight. Actual range may vary depending on environment.

### Configuring with SYNC

The USB connector may also be used to make configuration adjustments to the sensor. The advanced configuration process takes place on SYNC. For instructions on how to connect your Smart Sensor to SYNC, see the following section titled Configuring with SYNC.

## Advanced Configuration with SYNC

To configure the sensors in your SS-001, connect a USB mini 2.0 cable from your Smart Sensor to your PC or laptop running SYNC configuration software.

Once your device is auto-detected by the configuration software, you will be able to make adjustments to calibrate your device.



