The SS-002-1 offers a configurable mix of any three of the four internal sensors: Temperature, Humidity, Barometric Pressure, Ambient Light, AND one external sensor option: Thermocouple, RTD, or DIN (contact closure).

**Setting Alarms**

To configure the alarms in your SS-002 using SYNC, follow these steps:

**Step 1:** Click the icon next to the input you wish to set an alarm for.

**Step 2:** Set the parameters for your alarm and click Save.

**SYNC - Device Settings**

Users can perform functions such as firmware updates and factory resets of the SS-002 by navigating to the **Device Settings** tab of SYNC configuration software.

**SS-002 USB Powered Range Boost**

**Range Boost Mode**

When the SS-002-1 (NA) device is powered directly by a micro USB 2.0, 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.**

**FCC Statement**

Contains 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 of the device.

- 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 connected.
- 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.

**Industry Canada Statement**

Contains IC ID: 8205A-SS001XNA

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

**WARRANTY/DISCLAIMER**

OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of 13 months from the 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 conditions outside of OMEGA’s control. Components in which wear is not warranted, include but are not limited to contact points, fuses, and 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 of 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, EXCEPTED 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 product upon which liability is based. In no event shall OMEGA be liable for consequential, incidental or special damages.

CONDITION: 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) in such a manner.

**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.

FOR WARRANTY RETURNS, please have the following information available BEFORE contacting OMEGA:

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

OMEGA’s policy is to make running changes, not model changes. The following information is applicable before contacting OMEGA:

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

FOR NON-WARRANTY REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:

1. Product number and serial number of the product, and
2. Repair instructions and/or specific problems relative to the product.

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MQS5823/0223

**Omega Link Wireless TC and RTD Smart Sensor with Cloud Connectivity**

**WEB-002-1**

Features:

- Wireless temperature and differential temperature measurement
- Dual input design for TC and RTD
- Cloud connectivity via Omega Link
- Calibration and diagnostics on the move
- Two-year warranty

** Uses: **

- Temperature and humidity monitoring
- Process control and automation
- Environmental monitoring
- Industrial applications

**Applications: **

- Building automation
- HVAC systems
- Food processing
- Chemical and pharmaceutical industries
- - Industrial and commercial facilities

**Benefits: **

- Remote monitoring and control
- Real-time data visualization
- Customizable alarms and alerts
- User-friendly interface
- Cost-effective solution

**FAQ: **

Q: What is the difference between the WEB-002-1 and the WEB-002-1G?

A: The WEB-002-1 and the WEB-002-1G are similar in functionality; however, the WEB-002-1G includes a 4G cellular module for wireless data transmission, whereas the WEB-002-1 utilizes Wi-Fi or Ethernet connectivity.

Q: How is the Omega Link Software used with the WEB-002-1?

A: The Omega Link Software is used to configure and monitor the WEB-002-1. It allows users to set up custom data visualization, alarms, and alerts. The software can be accessed through a web-based interface or mobile app.

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Introduction

Important: Do not power on the Omega Link Gateway or Smart Sensor before Gateway registration is complete.

Use this Quick Start Guide to set up your Omega Link SS-002 TC and RTD Smart Sensor.

Materials

Included with your SS-002
• Omega Link SS-002 unit
• Quick start guide
• 2x AA alkaline batteries
• Sub GHz Antenna
• Terminal block connector

Additional Materials Needed
• A Windows 7,8, 9, 10, or 11 OS PC or laptop with Omega’s free SYNC configuration software
• A compatible Omega Link Gateway
• An Omega Link Cloud account or a qualifying Omega Enterprise Gateway license tier (Pro, Business, or Business Pro)

Optional Materials
• External TC, RD, or Contact Closure
• Micro USB 2.0 (for SYNC configuration)
• SYNC Configuration software
  - Downloadable on the OMEGA website

Before you Begin

Before you begin setting up your SS-002, ensure you have created an Omega Link Cloud or Omega Enterprise Gateway account and registered the Omega Link Gateway that will be paired with the SS-002 device.

During the gateway setup process, the gateway will automatically download the latest firmware and re-boot. Once the gateway is registered and the pairing button LED is green you may continue with the SS-002 installation.

SS-002 Hardware Setup

Step 1: Install the antenna to the side of the connector on the SS-002 unit.

Step 2: Insert the 2x AA batteries into the battery compartment located on the underside of the SS-002 unit.

Omega Link SS-002 Overview

Pairing to your Omega Link 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 an Omega Link Gateway. Pairing your SS-002 with an Omega Link Gateway is made easy with a one-button pairing system between the two devices.

Step 1: Push the pairing button once on your SS-002 unit. The LED status indicator will blink green indicating the device is in Pairing Mode.

Step 2: Quickly push the pairing button on the Omega Link Gateway. The LED on the gateway will blink green indicating the gateway is in Pairing Mode.

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

The Smart Sensor LED will periodically flash green each time data is transmitted to the gateway.

As measurements are transmitted, you will begin to see data appearing on the Omega Link Cloud or OEG interface. The transmission interval can be adjusted from the Omega Link Cloud Interface or from the OEG interface, depending on which platform the Gateway is connected to.

View Readings on Omega Link Cloud or OEG

Once your SS-002 has successfully paired to your registered Omega Link Gateway, the SS-002 will appear on the Omega Link Cloud interface or the OEG interface and begin transmitting data.

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

Advanced Configuration with SYNC

Note: SYNC configuration software is downloadable on the OMEGA website.

The SS-002 can be configured using SYNC configuration software by connecting through the micro USB 2.0 port. SYNC can be used to configure alarms in the sensor, set device passwords, and update firmware.

Sensor Mix Configuration

To configure the sensor mix in your SS-002, connect a micro USB 2.0 cable from your Smart Sensor device to your PC or laptop running SYNC configuration software.

Step 1: Once your device has been auto-detected by SYNC, click the Type dropdown in the Inputs interface.

The SS-002-0 offers a configurable choice of one external thermocouple, RTD, or DIN (contact closure).