RICE LAKE SCT-1SX Webserver Weighing Systems Instruction Manual

Contents

RICE LAKE WEIGHING SYSTEMS

RICE LAKE SCT-1SX Webserver Weighing Systems

Product Information

Specifications:

- Product: SCT-1SX Series
- Firmware version: 01.21.01
- Manual: Webserver Manual
- Date: January 4, 2024
- Part Number: 221633 Rev A

The most current version of this publication, software, firmware, and all other product updates can be found on our website: **www.ricelake.com**

For more information and detailed steps, refer to the Network Connection section in the manual.

Network Parameters
The IP address, subnet mask, and gateway of the instrument can be configured using the procedure indicated in the Fieldbus configuration paragraph in the instrument Quick start guide. In most applications, it is sufficient to set the IP address of the instrument in the same class as the PC.

For advanced configurations, it is recommended to contact your network administrator.

Web Page Login
Type the IP address of the instrument into a web browser. If the instrument has been configured correctly, the login window will be displayed:

- Ethernet/IP Profinet module SN
- Password
- Sign in

Enter the password 00000 and sign in. Once logged in, it is possible to change the password (Change password). Contact Rice Lake Weighing Systems for password recovery. Only one PC is allowed to access the instrument's web page at a time, if you log in from a second PC, the first one will automatically disconnect. Logging into the instrument web page interrupts the communication with the PLC if the Read only check box is disabled.

For more information about the main screen and its functionalities, refer to the Main Screen section in the manual.

Operating Mode
For instructions on how to set and use the operating mode, refer to the Operating Mode section in the manual.

Network Configuration
For instructions on how to configure the network settings, refer to the Network Configuration section in the manual.

Backup
For instructions on how to perform a backup, refer to the Backup section in the manual.

Restore
For instructions on how to perform a restore, refer to the Restore section in the manual.

Change Password
For instructions on how to change the password, refer to the Change Password section in the manual.

Sign Out
For instructions on how to sign out, refer to the Sign Out section in the manual.

Instrument Information
For information about the instrument and its details, refer to the Instrument Information section in the manual.

Zero
For instructions on how to zero the instrument, refer to the Zero section in the manual.

Tare
For instructions on how to perform tare operation, refer to the Tare section in the manual.

A/D Converter Points
For information about A/D converter points, refer to the A/D Converter Points section in the manual.

Calibration Parameters
For information about calibration parameters, refer to the Calibration Parameters section in the manual.

Calibration
For instructions on how to perform calibration, refer to the Calibration section in the manual.

Theoretical Calibration
For instructions on how to perform theoretical calibration, refer to the Theoretical Calibration section in the manual.

Commands
For information about commands, refer to the Commands section in the manual.

Setpoint
For instructions on how to set the setpoint, refer to the Setpoint section in the manual.

Introduction

Thank you for purchasing this product. This manual contains webserver information for the following SCT-1SX digital weight transmitters:

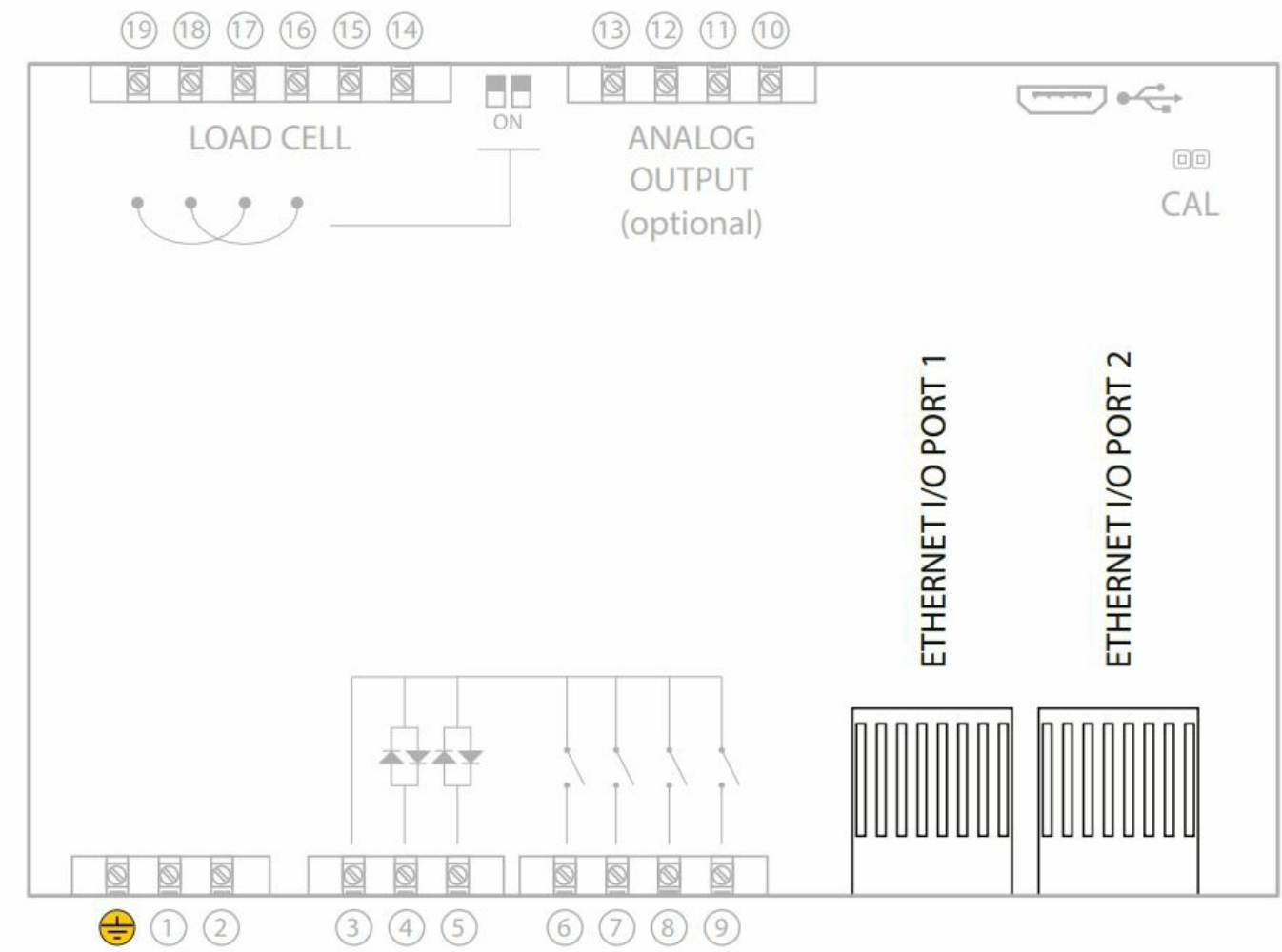
- SCT-1SX-E/IP
- SCT-1SX-MODTCP
- SCT-1SX-PRONET

It is recommended that you carefully follow the instructions for programming the weight transmitter; performing actions not indicated in this manual could compromise the functionality of the scale. Manuals are available from Rice Lake Weighing Systems at **www.ricelake.com/manuals** Warranty information is available at **www.ricelake.com/warranties**

Any problem with the product must be reported to the manufacturer or to the retailer where it was purchased. Always TURN OFF THE POWER SUPPLY prior to installation or repair action.

Network Connection

Connect the instrument to the network using the available Ethernet ports:



Network Parameters
The IP address, subnet mask, and gateway of the instrument can be configured using the procedure indicated in the “Fieldbus configuration” paragraph in the instrument Quick start guide. In most applications it is sufficient to set the IP address of the instrument in the same class as the PC.

NOTE: For advanced configurations, it is recommended to contact your network administrator.

Web Page Login
Type the IP address of the instrument into a web browser. If the instrument has been configured correctly, the login window will be displayed:

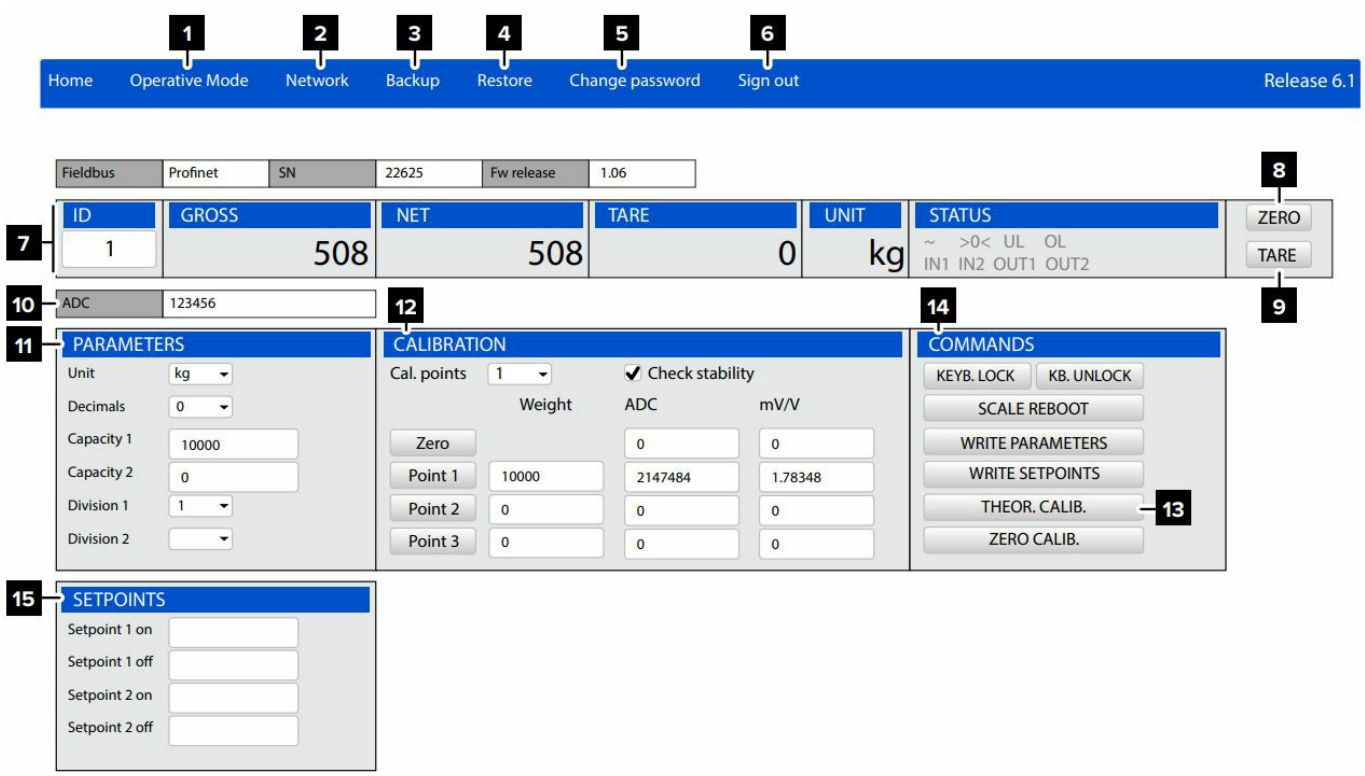
Enter the password “00000” and sign in.

NOTE: Once logged in, it is possible to change the password (Change password). Contact Rice Lake Weighing Systems for password recovery.

NOTE: Only one PC is allowed to access the instrument’s web page at a time, if you login from a second PC, the first one will automatically disconnect.

CAUTION: Logging into the instrument web page interrupts the communication with the PLC if the Read only check box is disabled.

Main screen



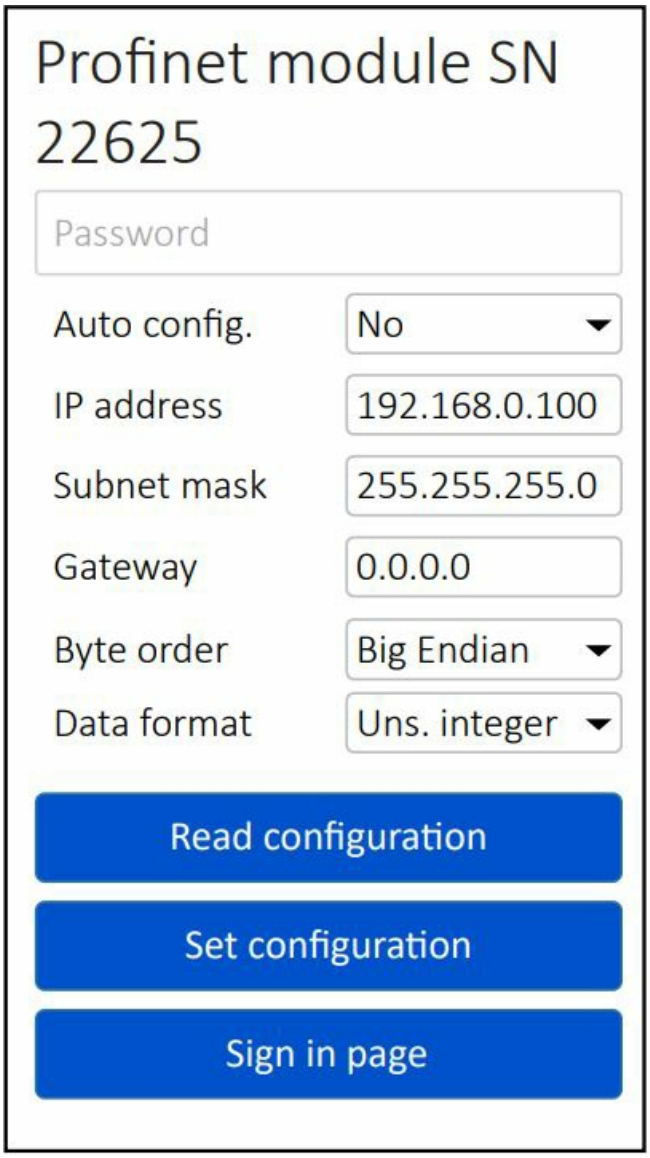
1. **Operating Mode**

   Not available for SCT1SX / SCT1SP models.

2. **Network Configuration**

   You can change the network parameters and the displayed data format:

   - IP address, Subnet mask, Gateway (enable “Auto config.” for DHCP).
   - Byte order: Big endian / Little endian.
   - Data format: Unsigned integer / Signed integer / Float.
   - Profinet name: up to 16 characters (only SCT1SX-PRONET)



(only SCT-1SX-PRONET)

NOTE: Changing the parameters will disconnect the transmitter. To reconnect, you must enter the new IP address in the search bar.

3. **Backup**

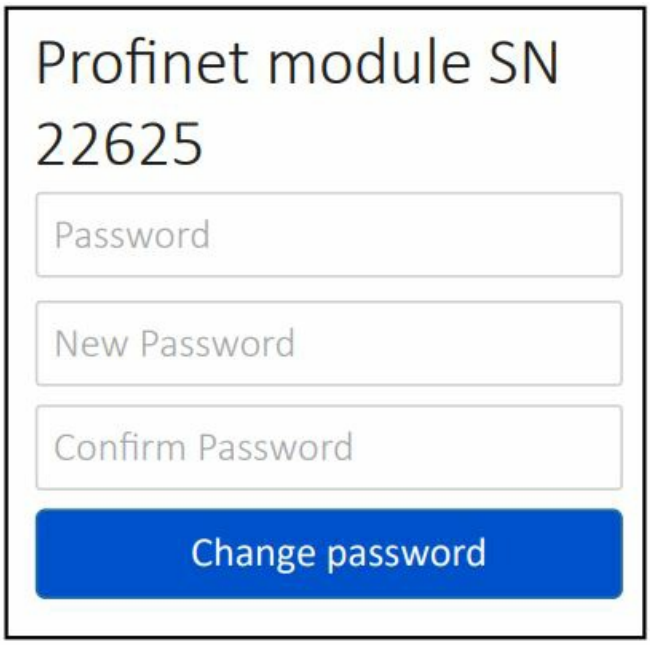
   By clicking on the “Backup” button the browser starts receiving the instrument configuration. When reception is complete, the “setup.mot” file is automatically downloaded. This file is compatible with the Rice Lake Tools program.

4. **Restore**

   By clicking on the “Restore” button you can select a configuration file to load on the instrument. WARNING: the configuration file must have “.mot” extension.

5. **Change Password**

   You can change your login password from this page:



6. **Sign Out**

   Log out from the instrument web page.

7. **Instrument Information**

   Shows the weight and status information of the scale:

ID	Scale identification number. (only for trAnSM mode)
GROSS	Gross weight
NET	Net weight
TARE	Tare
UNIT	Unit of measure
STATUS	Instrument status
	~ Unstable weight >0< Gross weight equal to zero UL Underload OL Overload IN1 Input 1 active IN2 Input 2 active OUT1 Output 1 active OUT2 Output 2 active

8. **Zero**

   Performs zeroing on the instrument.

   WARNING: the zero execution takes place only if the necessary conditions are met (zero parameters).

9. **Tare**

   Performs the tare on the instrument.

   To clear an active tare, you must perform a new tare when the scale is empty.

10. **A/D Converter Points**

    Shows the ADC points of the converter.

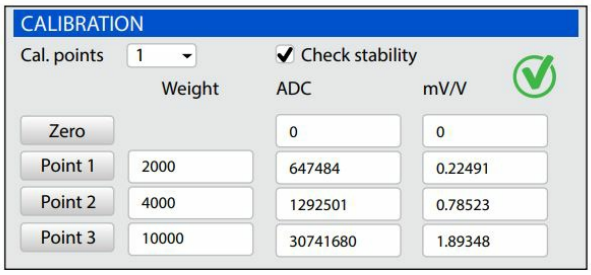
11. **Calibration Parameters**

    The setting of the scale calibration parameters:

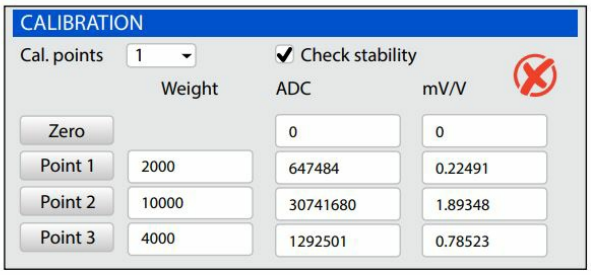
Unit	Unit of measure (g, kg, t, lb)
Decimals	Number of decimal digits (0, 1, 2, 3)
Capacity 1	First range value (or full capacity for single range applications)
Capacity 2	Second range value (not used in single range applications)
Division 1	First range division (1, 2, 5, 10, 20, 50)
Division 2	Second range division (1, 2, 5, 10, 20, 50)

12. **Calibration**
    1. Select the number of calibration points from the drop-down menu.
    2. Enter the weight values of the calibration points in the text boxes on the left.
    3. For each point, load the sample weight on the scale and click the corresponding button. The value of ADC points is automatically acquired in the text box on the right. If you know the ADC point value, you can enter it manually.
    4. The weight and ADC point values must be increased:

Case 1



Case 2



- Save the calibration by clicking **"WRITE PARAMETERS"**
- If the weight and/or ADC values are not increasing (Case 2), only point 1 will be considered.
- If "Check stability" is active, the calibration points are only acquired if the weight is stable.

13. **Theoretical Calibration**
    1. Enter the value 0 in the zero mV/V box.
    2. Enter in the mV/V box related to point 1, the cell sensitivity value. If there are more load cells connected, enter the average value.
    3. Enter in the weight box the load cell capacity. If there are more load cells connected, enter the total capacity.
    4. Calculate ADC points by clicking **"THEOR. CALIB"**
14. **Commands**

KEYBOARD LOCK	Keyboard lock
KEYBOARD UNLOCK	Keyboard unlock.
SCALE REBOOT	Reboots the instrument. (You will momentarily lose communication)
WRITE PARAMETERS	Saves calibration parameters.
WRITE SETPOINTS	Saves Setpoints
THEOR. CALIB	**Theoretical calibration**: By entering the weight and mV/V value of the load cells the relative ADC points are calculated. .
ZERO CALIB.	**Zero calibration.**

15. **Setpoint**
    1. Set the output function to Gross or Net. (Ref. Quick Start Guide)
    2. Enter the output on/off values in the text boxes.
    3. Save setpoints by clicking "**WRITE SETPOINTS**"

FAQ'S

Where can I find the manuals for this product?
Manuals are available from Rice Lake Weighing Systems at www.ricelake.com/manuals

Where can I find warranty information?
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What should I do if I encounter a problem with the product?
Any problem with the product must be reported to the manufacturer or to the retailer where it was purchased. Always TURN OFF THE POWER SUPPLY prior to installation or repair action.

Documents / Resources

	RICE LAKE SCT-1SX Webserver Weighing Systems [pdf] Instruction Manual SCT-1SX Webserver Weighing Systems, SCT-1SX, Webserver Weighing Systems, Weighing Systems, Systems

References

- Rice Lake Weighing Systems

- Manuals | Rice Lake Weighing Systems
- Warranties
- User Manual