

RICE LAKE SCT-1SX Webserver Weighing Systems



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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

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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:

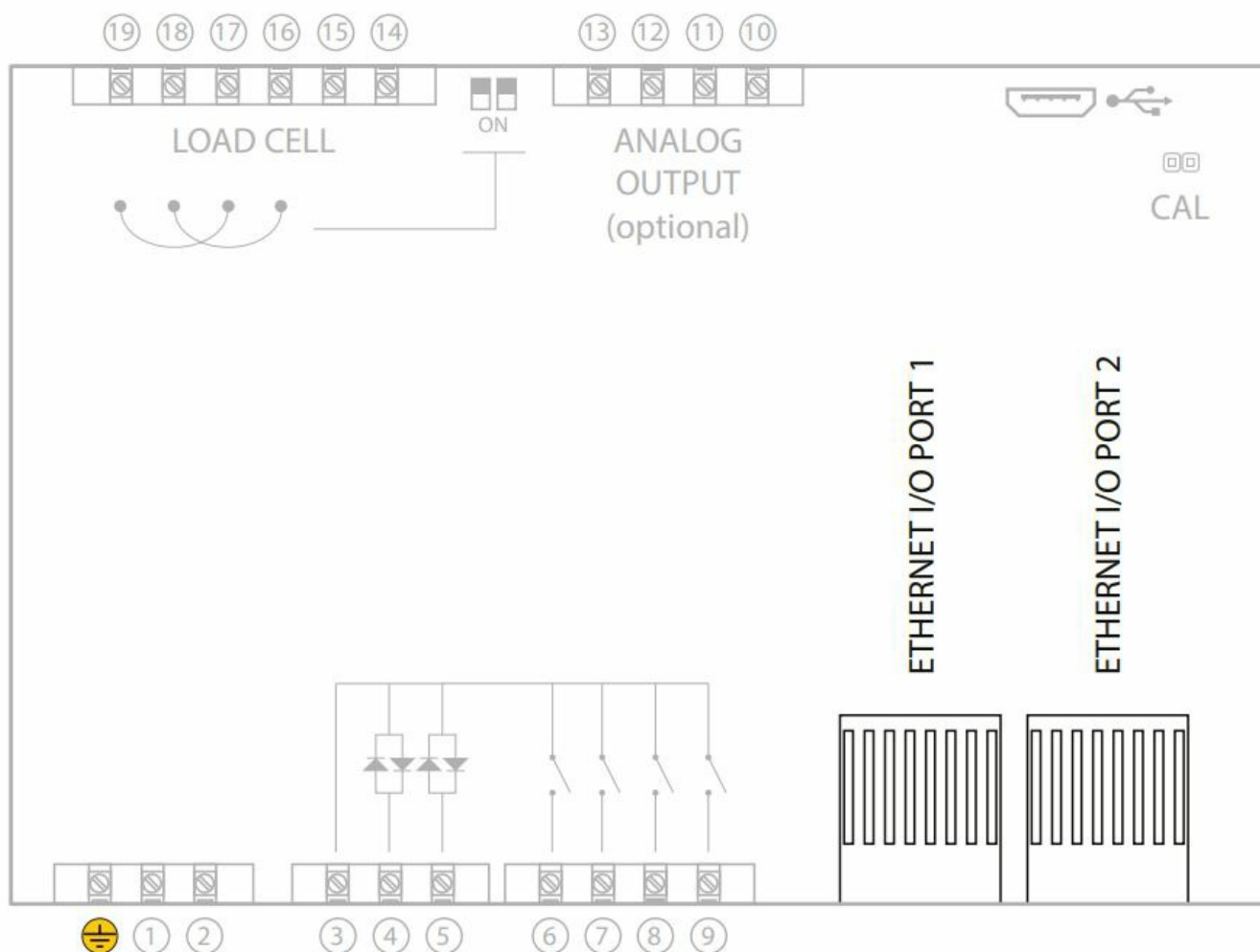
- SCT-1SX-E/IP
- SCT-1SX-MODTCP
- SCT-1SX-PRONET

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:

Ethernet/IP Profinet module SN

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

The screenshot shows the main interface of the instrument's web page. At the top is a blue navigation bar with links: Home (1), Operative Mode (2), Network (3), Backup (4), Restore (5), Change password (6), and Sign out. The version 'Release 6.1' is on the right. Below the navigation bar is a status bar showing 'Fieldbus: Profinet', 'SN: 22625', and 'Fw release: 1.06'. The main data area is divided into sections: a top row with 'ID: 1', 'GROSS: 508', 'NET: 508', 'TARE: 0', 'UNIT: kg', and 'STATUS: ~ >0< UL OL IN1 IN2 OUT1 OUT2'; an 'ADC' section with value '123456'; a 'PARAMETERS' section with settings for Unit (kg), Decimals (0), Capacity 1 (10000), Capacity 2 (0), Division 1 (1), and Division 2; a 'CALIBRATION' section with 'Cal. points: 1', 'Check stability' checked, and a table for calibration points; a 'COMMANDS' section with buttons like 'KEYB. LOCK', 'KB. UNLOCK', 'SCALE REBOOT', 'WRITE PARAMETERS', 'WRITE SETPOINTS', 'THEOR. CALIB.', and 'ZERO CALIB.'; and a 'SETPOINTS' section at the bottom with input fields for 'Setpoint 1 on/off' and 'Setpoint 2 on/off'. Numbered callouts (7-15) point to specific elements: 7 to the ID field, 8 to the ZERO button, 9 to the TARE button, 10 to the ADC field, 11 to the PARAMETERS section, 12 to the CALIBRATION section, 13 to the THEOR. CALIB. button, 14 to the COMMANDS section, and 15 to the SETPOINTS section.

ID	GROSS	NET	TARE	UNIT	STATUS
1	508	508	0	kg	~ >0< UL OL IN1 IN2 OUT1 OUT2

Fieldbus	Profinet	SN	22625	Fw release	1.06

ADC	123456

PARAMETERS			
Unit	kg		
Decimals	0		
Capacity 1	10000		
Capacity 2	0		
Division 1	1		
Division 2			

CALIBRATION			
Cal. points	1	<input checked="" type="checkbox"/> Check stability	
Weight	ADC	mV/V	
Zero	0	0	
Point 1	10000	2147484	1.78348
Point 2	0	0	0
Point 3	0	0	0

COMMANDS	
KEYB. LOCK	KB. UNLOCK
SCALE REBOOT	
WRITE PARAMETERS	
WRITE SETPOINTS	
THEOR. CALIB.	
ZERO CALIB.	

SETPOINTS	
Setpoint 1 on	
Setpoint 1 off	
Setpoint 2 on	
Setpoint 2 off	

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)

Profinet module SN
22625

Password

Auto config.

No

IP address

192.168.0.100

Subnet mask

255.255.255.0

Gateway

0.0.0.0

Byte order

Big Endian

Data format

Uns. integer

Read configuration

Set configuration

Sign in page

(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:

Profinet module SN
22625

Change password

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 <i>ErAn5n</i> 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

CALIBRATION			
Cal. points	Weight	ADC	mV/V
1			
Zero		0	0
Point 1	2000	647484	0.22491
Point 2	4000	1292501	0.78523
Point 3	10000	30741680	1.89348

Case 2

CALIBRATION			
Cal. points	Weight	ADC	mV/V
1			
Zero		0	0
Point 1	2000	647484	0.22491
Point 2	10000	30741680	1.89348
Point 3	4000	1292501	0.78523

- 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**"

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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?

Warranty information is available at www.ricelake.com/warranties

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

 <p>SCT-1SX Series Firmware version 01.21.01</p> <p>Webserver Manual</p> <p>RICE LAKE WEIGHING SYSTEMS</p>	<p>RICE LAKE SCT-1SX Webserver Weighing Systems [pdf] Instruction Manual SCT-1SX Webserver Weighing Systems, SCT-1SX, Webserver Weighing Systems, Weighing Systems, Systems</p>
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References

-  [Rice Lake Weighing Systems](http://www.ricelake.com)

-  [Manuals | Rice Lake Weighing Systems](#)
-  [Warranties](#)
- [User Manual](#)

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