SCT-1SX Series

Firmware version 01.21.01

Webserver Manual

Table of Contents

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:

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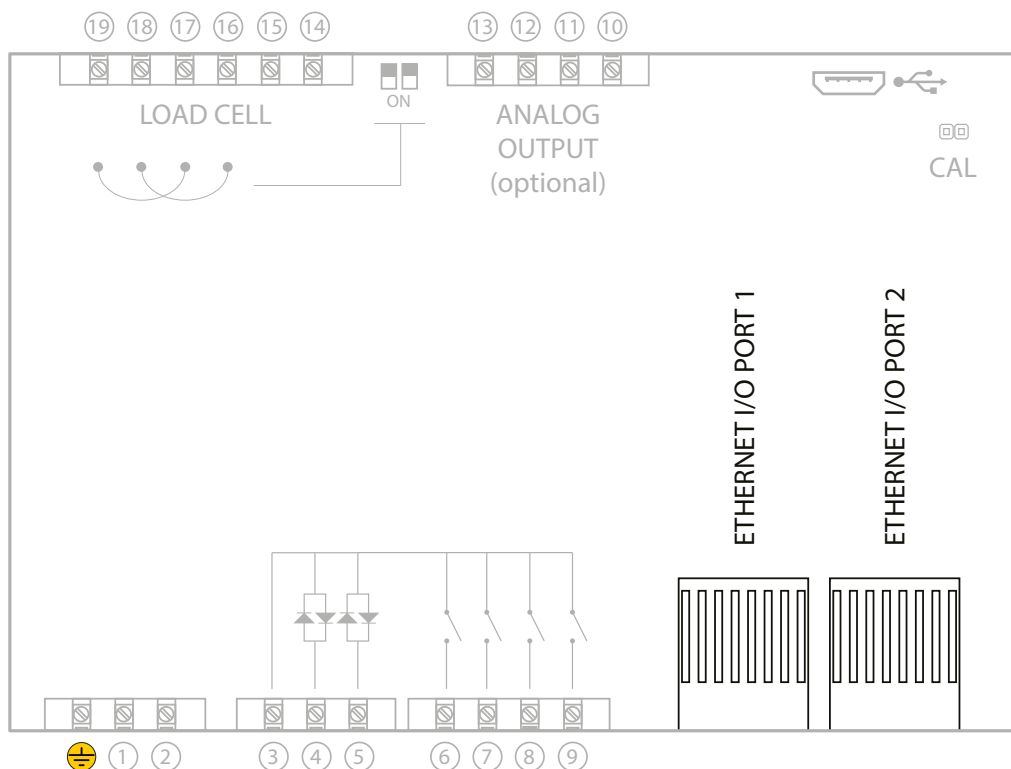
Network Parameters

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.

> **i**
>
> For advanced configuratios 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.

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

> **i**
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> 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.

> **⚠**
>
> Logging into the instrument web page interrupts the communication with the PLC if the Read only check box is disabled.

Main screen

1 Operative Mode
2 Network
3 Backup
4 Restore
5 Change password
6 Sign out

Fieldbus	Profinet	SN	22625	Fw release	1.06

8

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

7

ZERO

TARE

9

10 ADC | 123456

11 PARAMETERS

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

12 CALIBRATION

Cal. points 1   ✔ 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

14 COMMANDS

KEYB. LOCK	KB. UNLOCK

SCALE REBOOT

WRITE PARAMETERS

WRITE SETPOINTS

THEOR. CALIB. **13**

ZERO CALIB.

15 SETPOINTS

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

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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 ▼	(only SCT-1SX-PRONET)

Read configuration

Set configuration

Sign in page

ⓘ 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.

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5   Change Password

You can change your login password from this page:

Profinet module SN 22625

| Password |
| New Password |
| Confirm Password |
| **Change password** |

6   Sign Out

Logout from the instrument web page.

7   Instrument Information

Shows the weight and status information of the scale:

ID	Scale identification number. (only for ᴛᴦᴀᴨᴢᴨ 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

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W E I G H I N G   S Y S T E M S

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

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.
The weight and ADC point values must be increasing:

Case 1

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

Cal. points: 1　✔ Check stability

Case 2

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

Cal. points: 1　✔ Check stability

4. Save the calibration by clicking [WRITE PARAMETERS]

> **i**
>
> 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].

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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

NOTES