

RICE LAKE SCT-4X Series High Speed Transmitter With Integrated Fieldbus And Webserver User Manual

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RICE LAKE SCT-4X Series High Speed Transmitter With Integrated Fieldbus And Webserver



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7.1 References

Introduction

Thank you for purchasing this product.

This manual contains webserver information for the following SCT-4SX digital weight transmitters:

- SCT-4X-ETHIP
- SCT-4X-MODTCP
- SCT-4X-PRONET

It is recommended that you carefully follow the instructions for programming the weight transmitter; performing

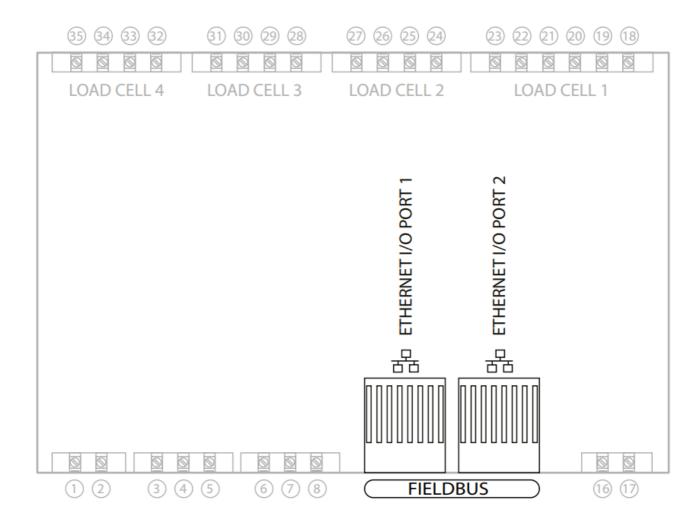
actions not indicated in this manual could compromise the functionality of the scale.

Manuals are available from Rice Lake Weighing Systems at www.ricelake.com/manuals Warranty information is available at www.ricelake.com/warranties

Report any product problems 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 either of the available Ethernet ports:



Network Parameters

Use the Fieldbus Settings procedure in the instrument's Quick Start Guide to configure the IP address, subnet mask and gateway of the instrument.

In most applications it is sufficient to set the IP address of the instrument to the same network ID as the PC. Ensure the configured device ID is not used by another device on the network.



For advanced configuration, contact your network administrator.

Web Page Login

Connect a device to the same network as SCT4X. Type the IP address of the instrument into a web browser. If the instrument has been configured correctly, the login window displays:

Ethernet/IP module SN

Password

Sign in



Warning: signing in with read only unchecked will prevent Fieldbus master to send commands to indicator until sign out

Enter the password "00000" and sign in.

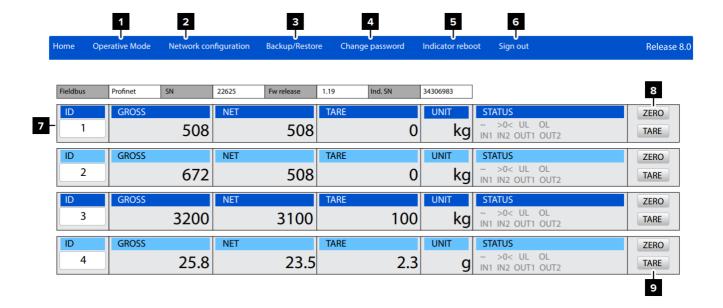
Once logged in, it is possible to change the password (Change password). In case of lost password contact Rice Lake Weighing Systems for recovery

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 be automatically disconnected.

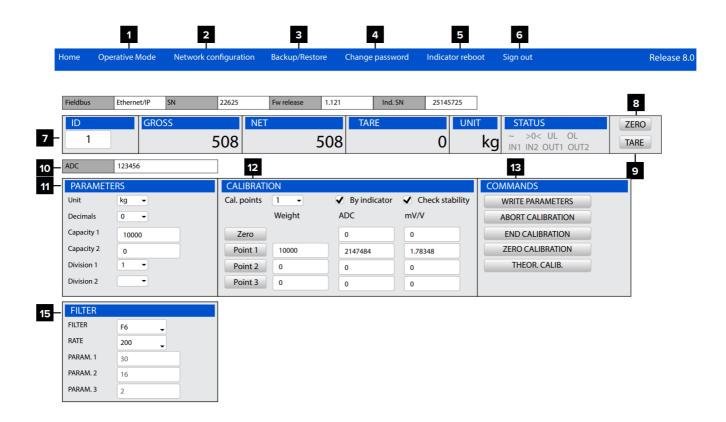
Logging into the instrument with Read Only disabled interrupts the communication with the PLC. When Read Only is enabled, the following features are restricted: accessing load cells, Calibration, Operative mode and Indicator reboot.

Main Screen

Independent Channels Mode (Multi-Scale)



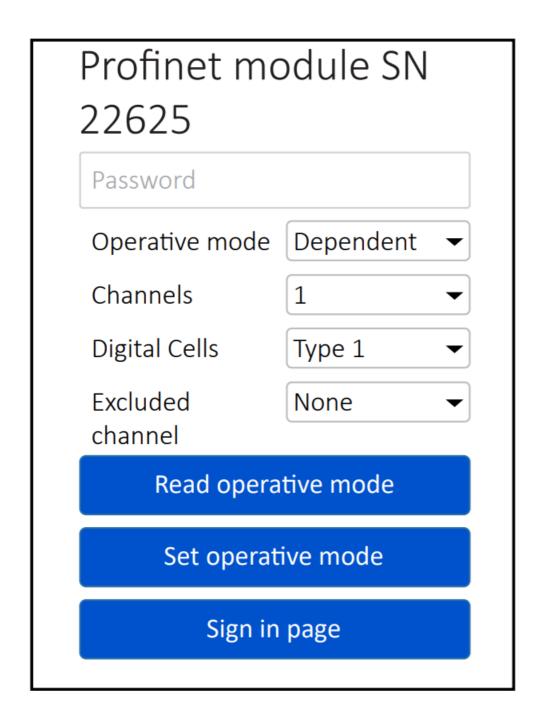
Dependent / independent channels mode (single scale)



Operating Mode

Read or configure operating modes. Settings include:

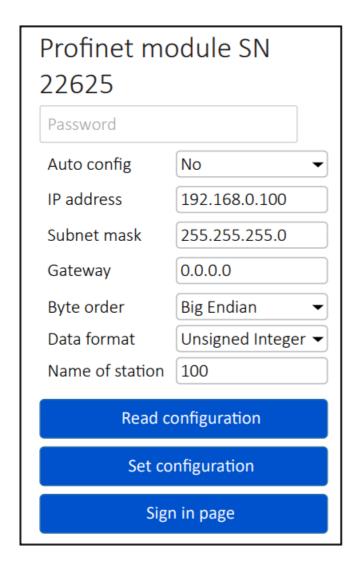
- Operative mode: Dependent or Independent
- Channels: Channel number (1, 2, 3, 4)
- Digital Cells: Type 1 -5 or Analog
- Excluded Channels: Excluded Channel number (1, 2, 3, 4)



Network Configuration

Edit the network parameters and the displayed data format:

- IP address, Subnet mask, Gateway (enable "Auto config." for DHCP).
- Byte order: Big endian / Little endian. This parameter configures device compatible with different processors. It reverses the byte order of input and the output data.
- Data format: Unsigned integer / Signed integer / Float.
- Name of satation: up to 16 characters (only SCT-4X-PRONET)



(only SCT-4X-PRONET)

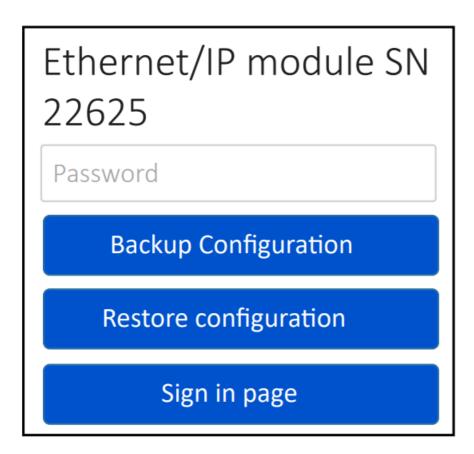
Changing the parameters will disconnect the transmitter. To reconnect, you must enter the new IP address in the web browser.

Backup/Restore

Select "Backup Configuration" to start receiving the instrument configuration in the web browser.

When reception is complete, the "setup.mot" file automatically downloads. This file is compatible with the Rice Lake Tools. Select "Restore Configuration" to choose a configuration file to load on the instrument.

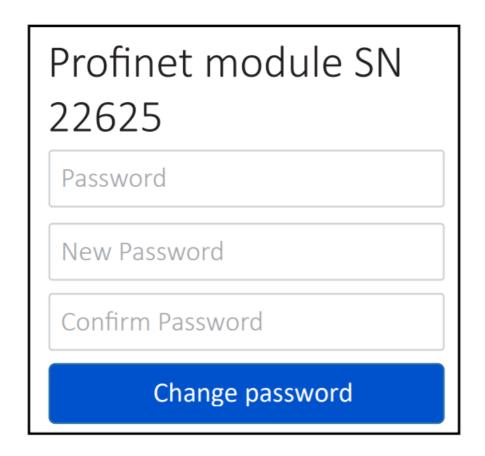
WARNING: the configuration file must have ".mot" extension.



Change Password

To change an account's password:

- Enter your old password.
- Enter new password and then confirm.
- Select Change password the complete the procedure.



Indicator Reboot

Reboots the indicator.

Sign Out

Signs out from the instrument's web page.

Instrument Information

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

Zero

Zeros the instrument.

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

Tare

Performs a tare on the instrument.

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

A/D Conversion Points

In dep.Ch mode, the sum of the active channels is displayed. In ind.Ch mode the value of the active scale is displayed.

Calibration Parameters

Sets the scale calibration parameters:

Unit	Unit of measure (g, kg, t, lb)		
Decimals	Number of decimal places (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)		

Calibration

NTE: When By indicator is enabled, calibration uses the indicator settings. When By indicator is disabled, it uses the settings on the web server.

By Indicator Calibration (By Indicator is Enabled)

- 1. Enable the By indicator checkbox.
- 2. In the Parameters menu, set Unit, Decimals, Capacity, and Division parameters.
- 3. In the Calibration menu, set the number of calibration points and then enter their weight values in the corresponding Weight text boxes.
- 4. Select WRITE PARAMETERS to send to parameters to the indicator (units, decimals, capacities, divisions, number of calibration points and sample weights).
- 5. Unload the scale and then select Zero.
- 6. Load the platform with sample weight 1 and select Point 1. The value of ADC points is automatically acquired in

the text box on the right. If you know the ADC point value, it can be entered manually.

7. Repeat 5 and 6 for the remaining calibration points. The weight and ADC point values must increase with each calibration point:

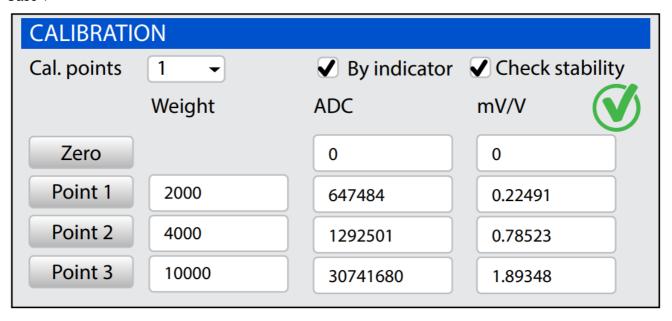
8. Select END CALIBRATION to save the calibration.

Web Server Calibration (By Indicator is Disabled)

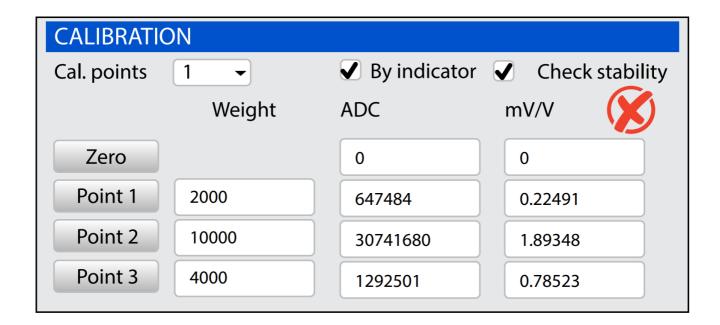
- 1. Disable the By indicator checkbox.
- 2. In the Parameters menu, set Unit, Decimals, Capacity, and Division parameters.
- 3. In the Calibration menu, set the number of calibration points and then enter their weight values in the corresponding Weight text boxes.
- 4. Unload the scale and then select Zero.
- 5. Load the platform with sample weight 1 and select Point 1. The value of ADC points is automatically acquired in the text box on the right. If you know the ADC point value, it can be entered manually.
- 6. Repeat 4 and 5 for the remaining calibration points. The weight and ADC point values must increase with each calibration point:
- 7. Select WRITE PARAMETERS to save all parameters on the indicator.

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.

• Case 1



Case 2



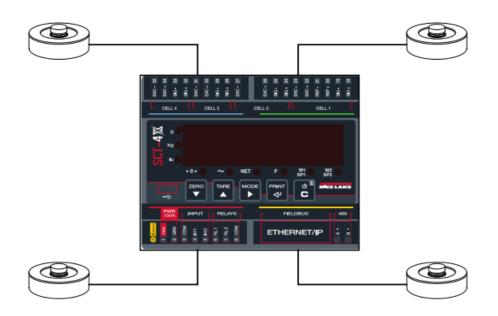
Commands

WRITE PARAMETERS	Saves parameters to the indicator.
ABORT CALIBRATION	Cancels calibration without saving.
END CALIBRATION	After acquisition sequence ends calibration and saves values on indicator. NOTE Only used when the By indicator checkbox is enabled.
ZERO CALIBRATION	Pre-Tare Reset
THOER. CALIBRATION	Theoretical calibration : By entering the weight and mV/V value of the cells the rel ative ADC points are calculated

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 calculated as shown in the note.
- 3. Calculate ADC points by clicking THEOR. CALIB

DEPENDENT CHANNELS



mV/V value:

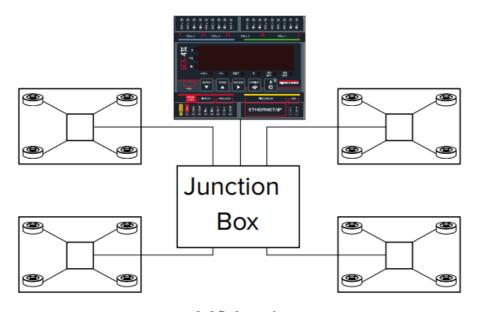
mV/V cell1 +

mV/V cell2 +

mV/V cell3 +

mV/V cell4 +

DEPENDENT CHANNELS INDEPENDENT CHANNELS



mV/V value:

mV/V cell1 + mV/V cell2 + ... + mV/V cellN

Ν

Repeat the procedure for each scale

Filter

Filter	Configures filter (F1, F2, F3, F4, F5, F6, F7 or Custom). For more information, see instrument's operation manual.
Rate	Configures the number of analog to digital conversions (3-100) per second that is p erformed by the analog to digital converter.
Param. 1	Configures the length of the average window (quantity of ADC points). For example , a value of 8 indicates 8 ADC points will be used for the average window.
Param. 2	Removes ADC points from the average window in beginning or ending positions. For example, a value of 2 indicates the 2 outermost values will be removed from the list. In the list: 10, 20, 30 and 40; 10 and 40 are removed.
Param. 3	Removes the center most ADC points from average computations. For example, a value of 2 indicates the 2 center most values are removed from the I ist. In the list: 10, 20, 30 and 40; 20 and 30 are removed.

Parameter (Param.) values must meet the following the criteria:

- All parameters values must be even numbers
- Param. 2 must be less than or equal to param. 1 and greater than zero
- Param. 3 must be in the range zero to param. 2 − 2



Configure the following parameters to disable filtering:

- Param. 1 = 1
- Param. 2 = 0
- Param. 3 = 0

Customer Support

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Documents / Resources



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SCT-4X, SCT-4X Series High Speed Transmitter With Integrated Fieldbus And Webserver, SCT-4X Series, High Speed Transmitter With Integrated Fieldbus And Webserver, Transmitter With Integrated Fieldbus And Webserver, Fieldbus And Webserver, Webserver, Webserver

References

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

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