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NICOL SCALES & MEASUREMENT IS AN ISO ACCREDITED CALIBRATION COMPANY THAT HAS PROVIDED CALIBRATION, REPAIR AND SALES OF ALL TYPES OF WEIGHING AND MEASUREMENT PRODUCTS SINCE 1931.

SCT-1SX Series

Firmware version 01.21.01

Webserver Manual



RICE LAKE®
WEIGHING SYSTEMS

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www.ricelake.com

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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

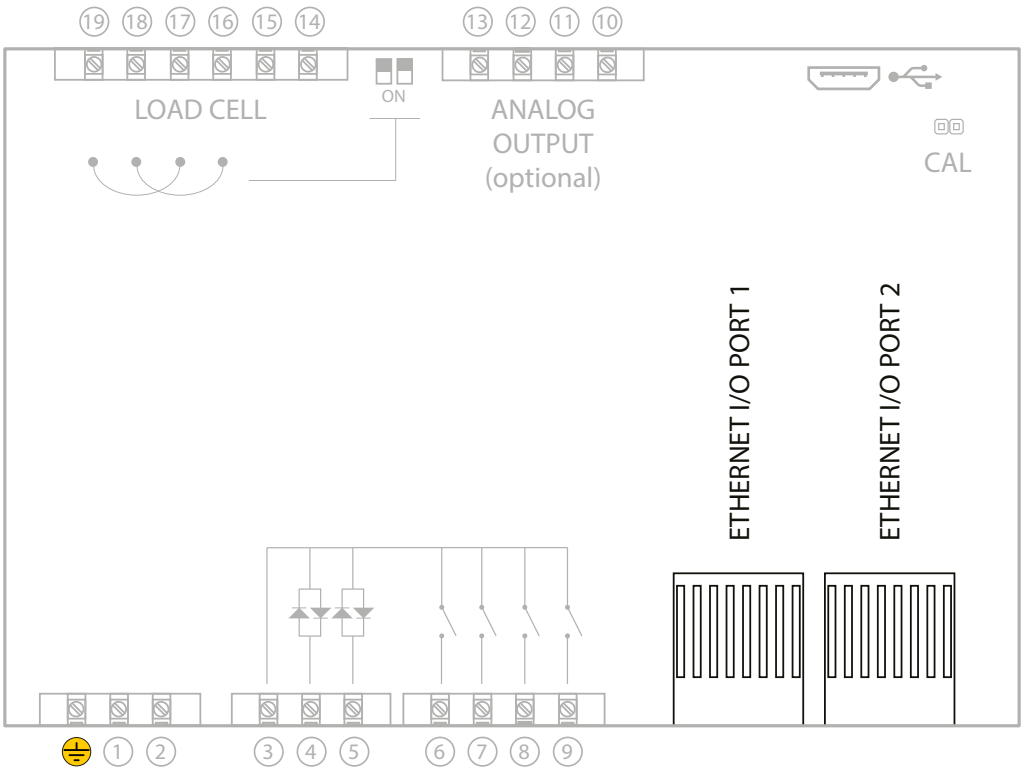
It is recommended that you carefully follow the instructions for programming the weight transmitter; performing actions not indicated in this manual could compromise the functionality of the scale.

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

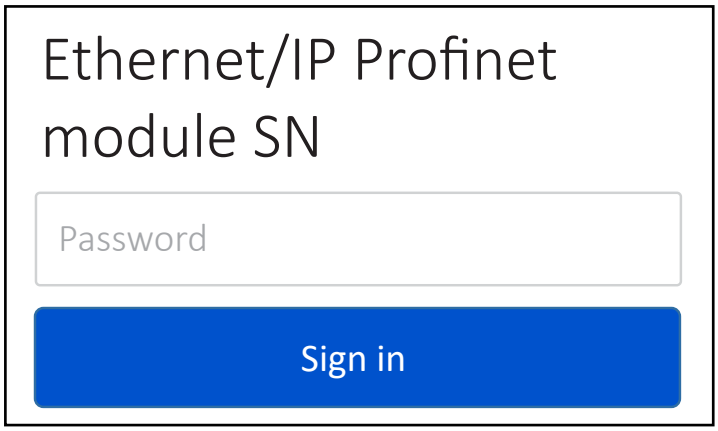
The IP address, subnet mask and gateway of the instrument can be configured using the procedure indicated in the "**Fieldbus configuration**" paragraph in the instrument Quick start guide.

In most applications it is sufficient to set the IP address of the instrument in the same class as the PC.

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:



Enter the password "**00000**" and sign in.

Once logged in, it is possible to change the password (**Change password**).

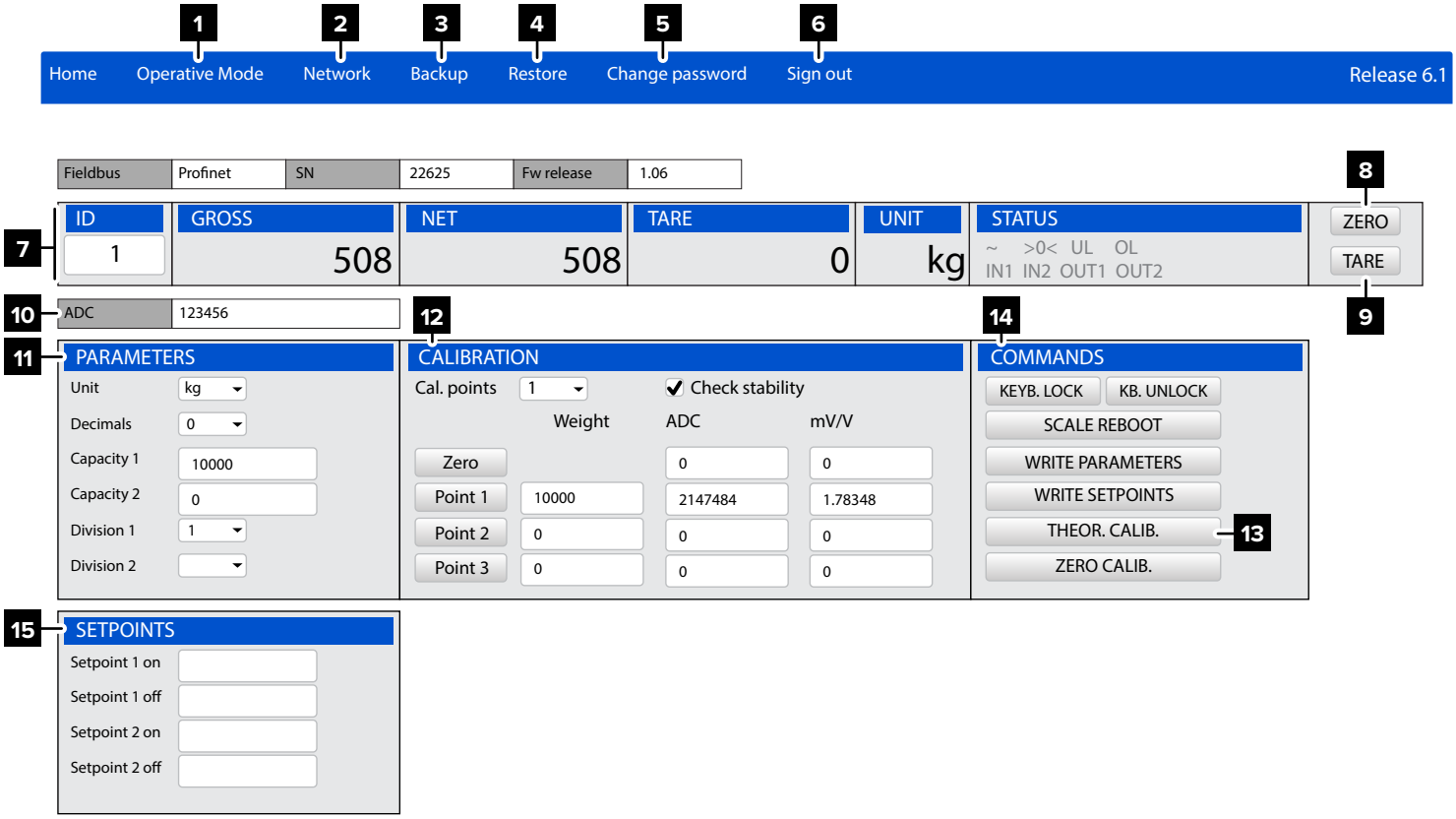
Contact Rice Lake Weighing Systems for password recovery.

Only one PC is allowed to access the instrument's web page at a time, if you 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.

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Main screen


1
2
3
4
5
6
Home
Operative Mode
Network
Backup
Restore
Change password
Sign out
Release 6.1
Fieldbus
Profinet
SN
22625
Fw release
1.06
8
7
ID
1
GROSS
508
NET
508
TARE
0
UNIT
kg
STATUS
~ >0< UL OL
IN1 IN2 OUT1 OUT2
ZERO
TARE
9
10
ADC
123456
12
14
11
PARAMETERS
Unit
kg
Decimals
0
Capacity 1
10000
Capacity 2
0
Division 1
1
Division 2
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
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

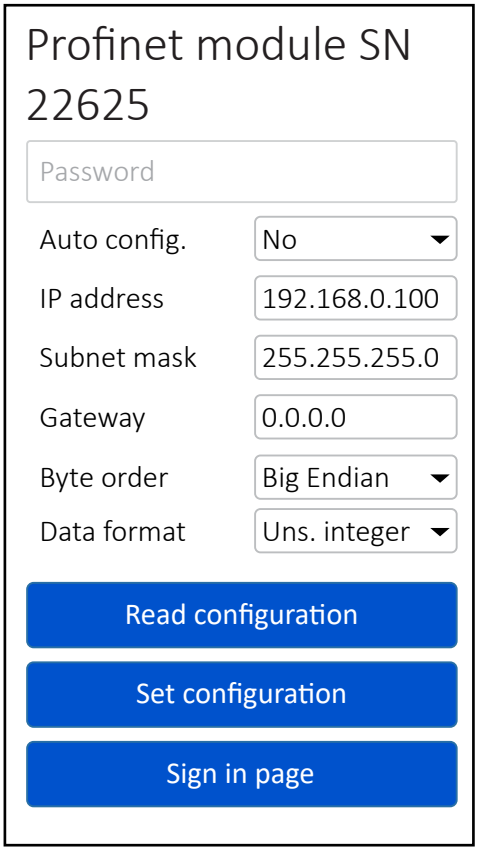
1 Operating Mode

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)

i 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.

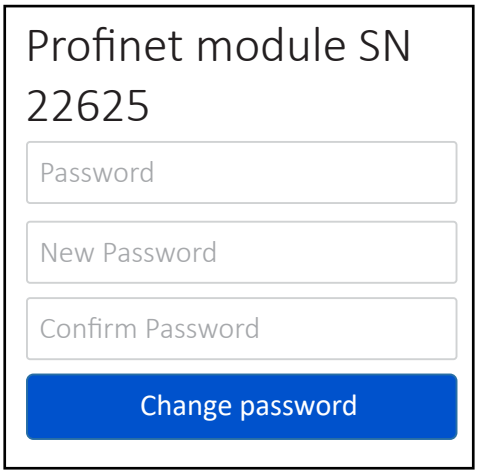
4 Restore

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:



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 tr4n5n 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

Setting of the scale calibration parameters:

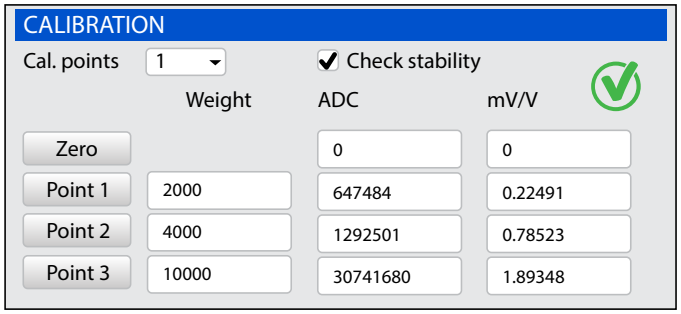
Unit	Unit of measure (g, kg, t, lb)
Decimals	Number of decimal digits (0, 1, 2, 3)
Capacity 1	First range value (or full capacity for single range applications)
Capacity 2	Second range value (not used in single range applications)
Division 1	First range division (1, 2, 5, 10, 20, 50)
Division 2	Second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

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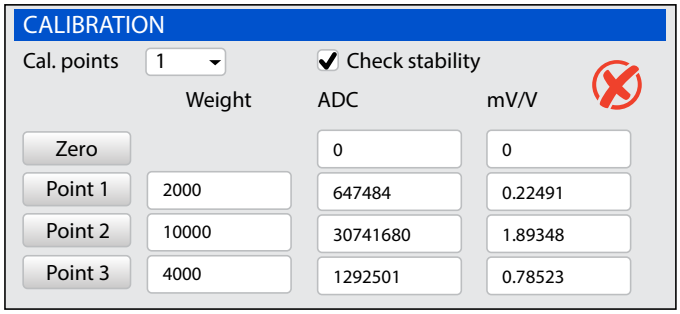
12 Calibration

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



Case 2



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.

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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NOTES

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