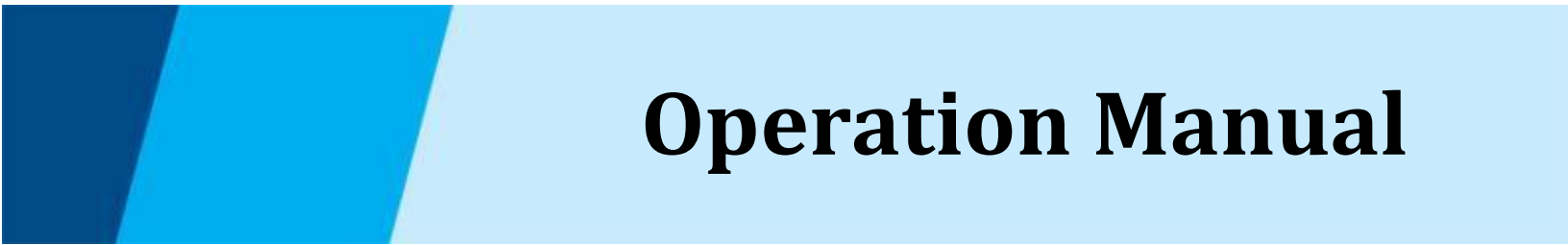


T-Touch



Operation Manual

X10-X15-PC

Weighing Indicator

CONTENTS

1. SAFTY INSTRUCTIONS -----	- 1 -
2.GENERAL INTRODUCTION -----	- 3 -
2.1 Features -----	- 3 -
2.2 Touch Screen -----	- 3 -
2.3 Over view -----	- 4 -
2.4 CONNECTORS -----	- 5 -
3. INSTALLATION -----	- 6 -
3.1 Unpacking -----	- 6 -
3.2 Load cell connections -----	- 6 -
3.3 Power Connection -----	- 6 -
3.4 RS-232 Connection -----	- 7 -
3.5 Start Up -----	- 7 -
3.6 Transport and Storage -----	- 8 -
4. DISPLAY & KEY FUNCTIONS -----	- 9 -
4.1 Weighing Demo -----	- 9 -
5. Operation -----	- 11 -
5.1 System & Software -----	- 11 -
5.2 Enter into main menu settings -----	- 11 -
5.3 Start to operate -----	- 12 -
5.4 Zero -----	- 12 -
5.5 Tare -----	- 12 -
5.6 Overload Warning -----	- 12 -
5.7 Weighing Setting -----	- 12 -
5.8 Calibration -----	- 14 -
5.9 Touch Screen Calibration -----	- 15 -
6. SPECIFICATION -----	- 16 -
6.1 Specification -----	- 16 -
7. Cleaning and Maintenance -----	- 17 -
7.1 Preventive Maintenance -----	- 17 -
7.2 Cleaning housing and display -----	- 17 -
8. TROUBLESHOOTING -----	- 18 -

1. SAFTY INSTRUCTIONS



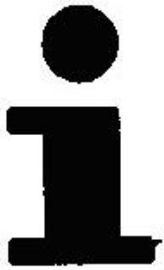
WARNING

DISCONNECT ALL POWER TO THIS UNIT BEFORE INSTALLING, CLEANING, OR SERVICING. FAILURE TO DO SO COULD RESULT IN BODILY HARM OR DAMAGE THE UNIT.



CAUTION

- **Permit only qualified persons to service the instrument**
- **Before connecting or disconnecting any components, remove the power.**
- **Failure to observe these precautions bodily harm or damage to destruction of the equipment.**



SAFTEY INSTRUCTION

The weighing scale is a precision electronic instrument, handle it carefully.

- 1) The device must only be operated by personnel trained in the operation of this equipment.
- 2) The operating personnel must read and understand the safety instructions in these operating instructions.
- 3) To prevent any accident, only qualified service personnel is authorized to open this device!
- 4) Verify the local voltage and receptacle type are correct for the scale.
- 5) Only use original adaptor, other could cause damage to the scale.
- 6) Pluggable equipment must be installed near an easily accessible socket outlet.
- 7) Avoid unstable power sources. Do not use near large users of electricity such as welding equipment or large motors.
- 8) Avoid sudden temperature changes, vibration, wind and water.
- 9) Avoid strong pressure or scratching the surface with hard, sharp or pointed objects.
- 10) Avoid heavy RF noise.
- 11) Scale is not waterproof and insect prevention. Do not spray or immerse scale in water. Please keep scale clean.
- 12) Do not install the scale in direct sunlight.
- 13) Do not use tools to open the casing.
- 14) Do not use organic acid, alkaline solutions, scouring powders or plastic dissolving cleaning agents for cleaning.

2.GENERAL INTRODUCTION

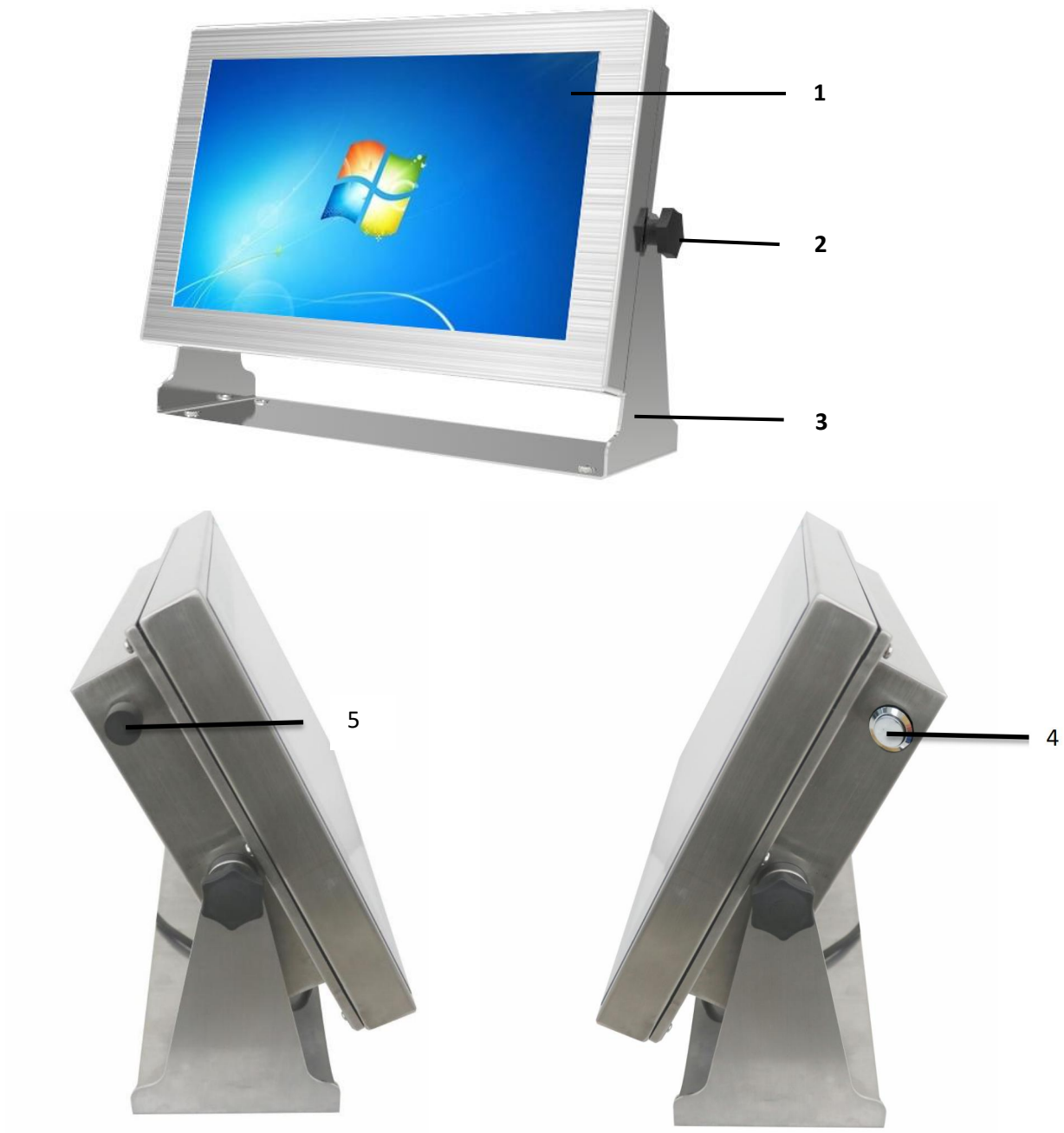
2.1 Features

- Touch Operating System
- 15.6" TFT LCD display
- Built-in real time clock
- 4GB RAM and 64GB FLASH Memory
- PC key board, Mouse, Barcode Scanner,
- RS232 x 2: Serial communication port can connect with PC, mini printer, Ticket Printer, Label printer etc.

2.2 Touch Screen

- X15 Series delivered with Resistive type TFT Touch Screen Display for X15 series
- The Touch Screen functions based on the resistive type, Touch Screen Display only depends on the Applied pressure and not on the material itself; So that the Touch Screen can also be operated with finger tips, pen tips and rubber gloves.
- The resolution of the 15" display is 1366 x 768 pixels

2.3 Over view



1 Operator display (15.6" touch screen)

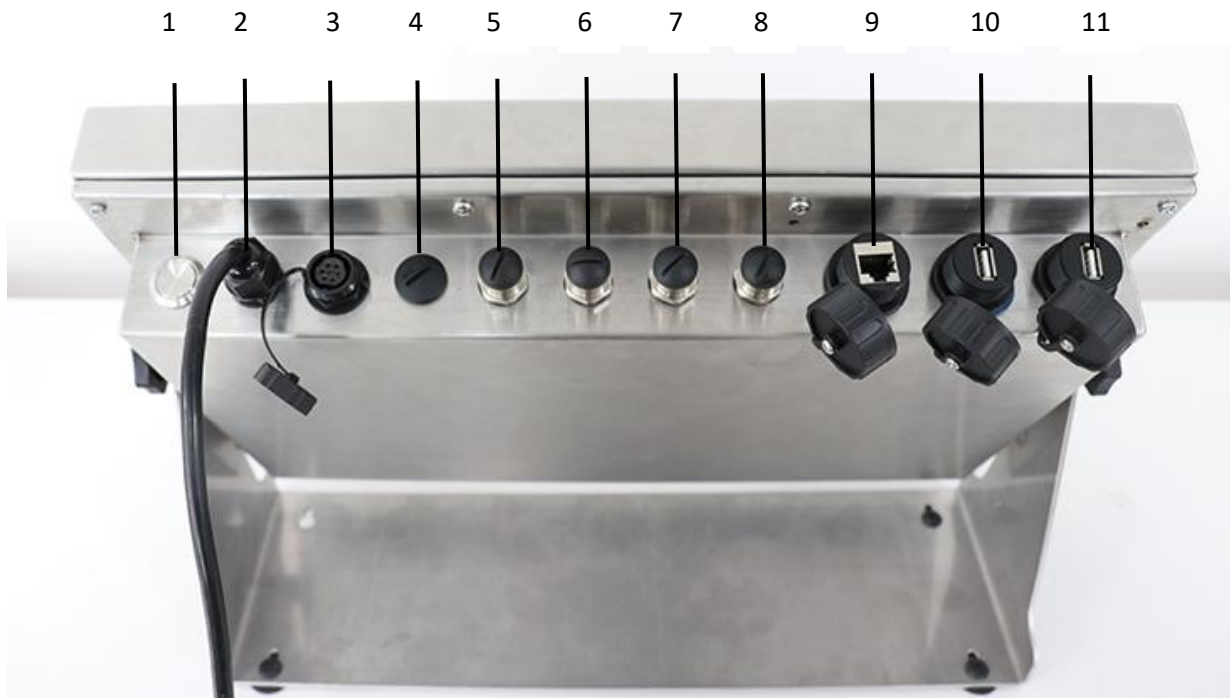
2 Hand knob

3 Indicator holder

4 ON/OFF key

5 WIFI antenna

2.4 CONNECTORS



No	Interface	Description
1	Power Switch	Used to switch on/off power
2	Power Socket	Support AC 110v~240v
3	Load cell connector	Used to connect load Cell
4	Load cell connector	Used to connect second platform
5	/	N.A
6	/	N.A
7	COM1	RS232 communication port ,For computer or printer
8	COM2	RS232 communication port,For computer or printer
9	RJ45	Support 10M/100M Ethernet
10	USB2.0	For mouse, keyboard,avoid using for charging other device
11	USB2.0	For mouse, keyboard, avoid using for charging other device

3. INSTALLATION

3.1 Unpacking

When you receive the scale, inspect it to make sure that it is not damaged and that all parts are included:

- Remove the scale from the carton.
- Remove the protective covering. Store the packaging and to use if you need to transport the scale later.
- Inspect the scale for damage.
- Make sure all components are included.
 1. Weighing Indicator ; 2. Power cord; 3. Quick start guide ; 4.Manual; 5.Waterproof connectors assembly ; 6. WIFI module

3.2 Load cell connections

- Connect the load cell cables to the terminal as shown below.
- It can connect four 350 ohm load cells.
- The load cell drive voltage is 5V DC $\pm 5\%$ between Excitation + and Excitation -.

7Pin	
Pin 1	Signal -
Pin 2	Signal +
Pin 3	Shield
Pin 4	Exc -
Pin 5	Sen -
Pin 6	Sen +
Pin 7	Exc +

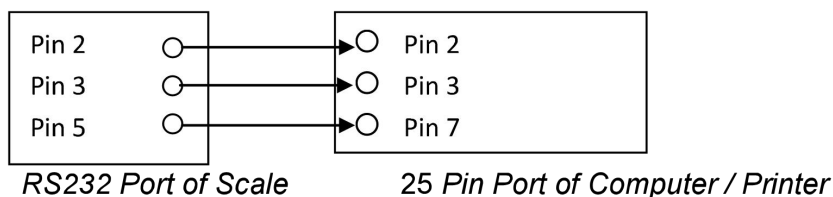
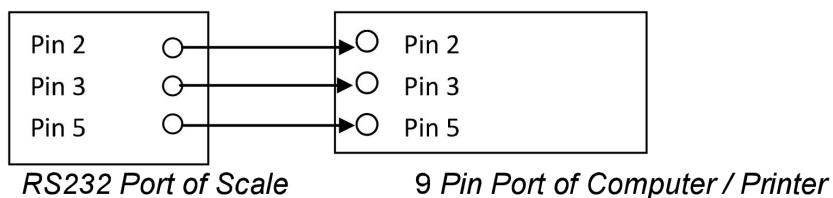
3.3 Power Connection

- Connect the power cable to the indicator power socket.
- Adaptor connects into your AC power socket. Pluggable equipment must be installed near an easily accessible socket outlet with a protective ground/ earth contact.

3.4 RS-232 Connection

The RS-232 port is located on the side or rear of the scale (refer to component description), and its signals are defined in the following.

Serial Interface: Scale – PC / Printer connection:



If not communicating, please interchange one of the connector Pin 2 and Pin 3 connections

3.5 Start Up

Putting into operation.

The device has been installed properly ,The scale must not be loaded.

1) Switch on device

- 1 Connect the mains power cord to power socket
- 2 Press the power switch that is located bottom side of indicator to turn on the power

Power
switch



- 3 Long press power-on button that is located left side of indicator and the indicator will be on

Power on
button



2) Power off

Press power-on button again to power off.

3.6 Transport and Storage

Always transport and store the device in its original packaging.

3.6.1. Decommissioning

Switch off the scale

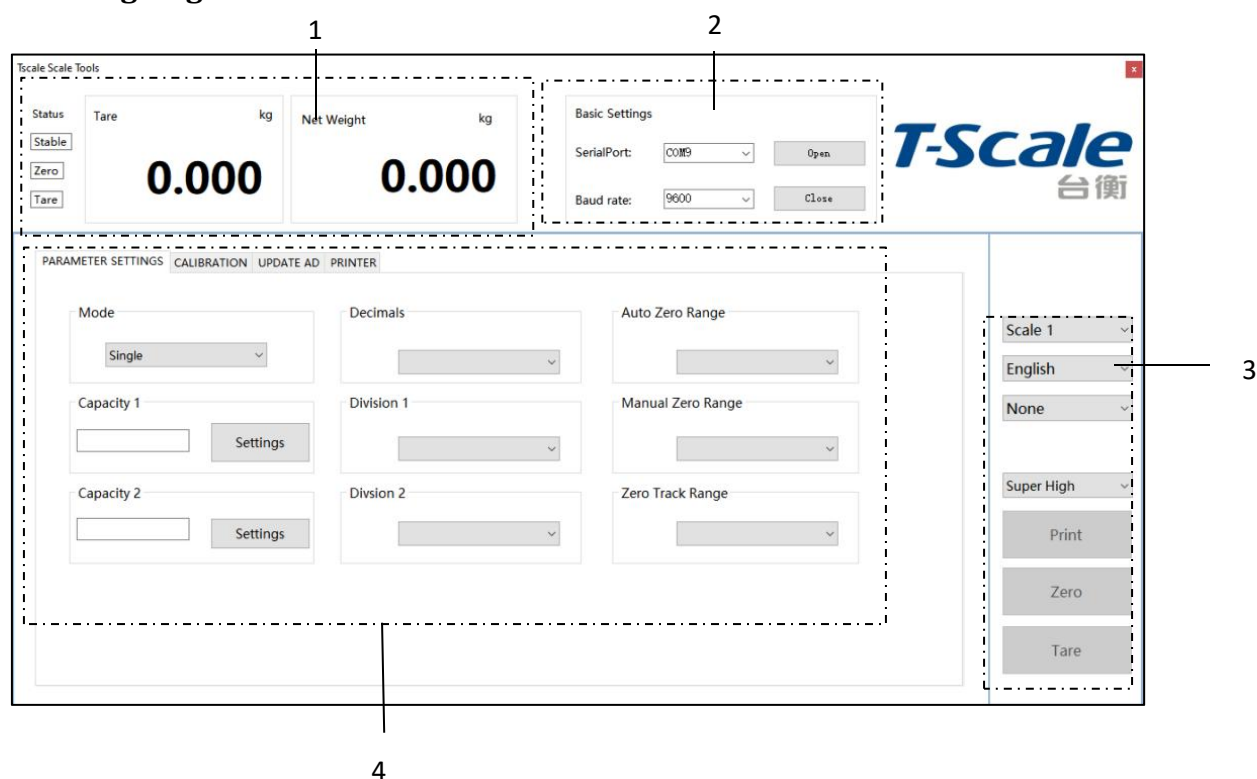
Remove all cables and connections from the scale

Clean the scale as per the cleaning instructions

Store the device in its original packaging

4. DISPLAY & KEY FUNCTIONS

4.1 Weighing Demo



1 Display

Net weight		To display net value
Tare		To display Tare value
Status	Stable	Stable Indicator
	Zero	Zero Indicator
	Tare	Tare Indicator

2 Basic Settings

Open	To start the demo operation
Close	To exit the weighing setting
Serial Port	To select the serial port from the drop down list Default is COM3
Baud Rate	To select the baud rate from the drop down list Default is 115200

3 Keys Function

Scale1	To select the option (scale1 or scale2) Scale2 used for the second platform
English	To select the demo language (English/Simplified Chinese/Traditional Chinese)
None	To select the approval mode (None /Approved)
Super high	To select the AD speed (Low/Middle/High/Super High)
Zero	Use this key to zero the scale.
Tare	Use this key to perform tare.
Print	To print out the receipt when connect with printer

4 Weighing Setting

It allows to perform weighing setting, supporting parameter settings, calibration, update AD and printer. The update AD and printer are not available.

5. Operation

5.1 System & Software

64G m-SATA is divided into two disks: Disk C:32GB ; Disk D: 32GB

Disk D for 1) Drivers; 2) Tools (including Weighing calibration software and DLL files

5.2 Enter into main menu settings

Turn on the scale, make sure platter is empty,15 seconds later, it will enter to windows operating system.

Double Click weight demo folder <Release> in desk of scale

Windows SDK > Scales > Weight Demo > Release

Name	Date modified	Type
en-US	9/25/2024 9:15 AM	File fold
zh-CHT	9/25/2024 9:15 AM	File fold
zh-CN	9/25/2024 9:15 AM	File fold
AaeonDio.dll	10/26/2022 11:21 AM	Applica
autoreplyprint.cs.dll	1/5/2021 10:23 AM	Applica
autoreplyprint.dll	1/5/2021 9:50 AM	Applica
Config.ini	9/25/2024 4:21 PM	Config
ESC_SDK.dll	12/17/2021 10:38 AM	Applica
LabelPSeries.dll	11/30/2022 1:47 PM	Applica
PrinterLibs.dll	10/26/2022 11:21 AM	Applica
ScaleDemoTest.exe	9/25/2024 9:12 AM	Applica
ScaleDemoTest.exe.config	5/30/2023 4:00 PM	CONFIC
ScaleDemoTest.pdb	9/25/2024 9:12 AM	(null)
ScaleLibrary.dll	9/5/2024 3:16 PM	Applica
ScaleLibrary.exp	9/5/2024 3:16 PM	EXP File
ScaleLibrary.lib	9/5/2024 3:16 PM	360zip
ScaleLibrary.pdb	9/5/2024 3:16 PM	(null)
test.bmp	6/2/2023 9:30 AM	BMP Fil
tscale.bmp	11/30/2022 11:18 AM	BMP Fil
WebDriver.dll	10/31/2018 9:53 AM	Applica
WebDriver.xml	10/31/2018 9:53 AM	Microsc

Double click the ScaleDemoTest.exe to run on the software

5.3 Start to operate

- 1 Select the com port as **COM3**
- 2 The default baud rate is **115200**
- 3 Then click **OPEN** button to start operation

The image shows a 'Basic Settings' dialog box. It contains two rows of controls. The first row is labeled 'SerialPort:' and has a dropdown menu showing 'COM3' and a button labeled 'Open'. The second row is labeled 'Baud rate:' and has a dropdown menu showing '115200' and a button labeled 'Close'.

5.4 Zero

Zero setting is allowed by pressing “**ZERO**” key. It is only possible when the load receptor is stable.

5.5 Tare

The weight of the container can be tared by pressing “**TARE**” button so that the subsequent results will show the net weight.

Tare Operation:

Load container on the platform.

Press “**TARE**” key. Zero is displayed, and tare is subtracted.

Remove container on the platform. Tared weight is displayed. It can only be set to one tare value. The tare value will be shown with a minus value. This Tare value can be cleared by pressing “**TARE**” key while the plate is empty. Tare can only be performed when the load receptor is stable.

5.6 Overload Warning

Please do not load the weight exceed the full capacity of scale,if show “--OL--” error,unload the weight from the platter to avoid damage to the load cell.

5.7 Weighing Setting

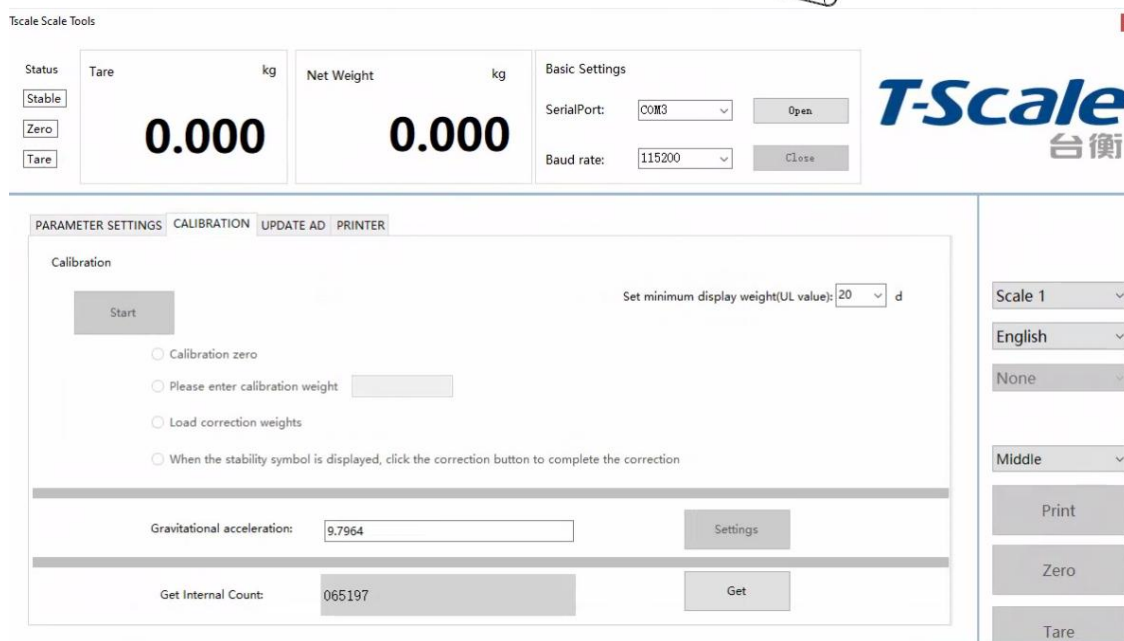
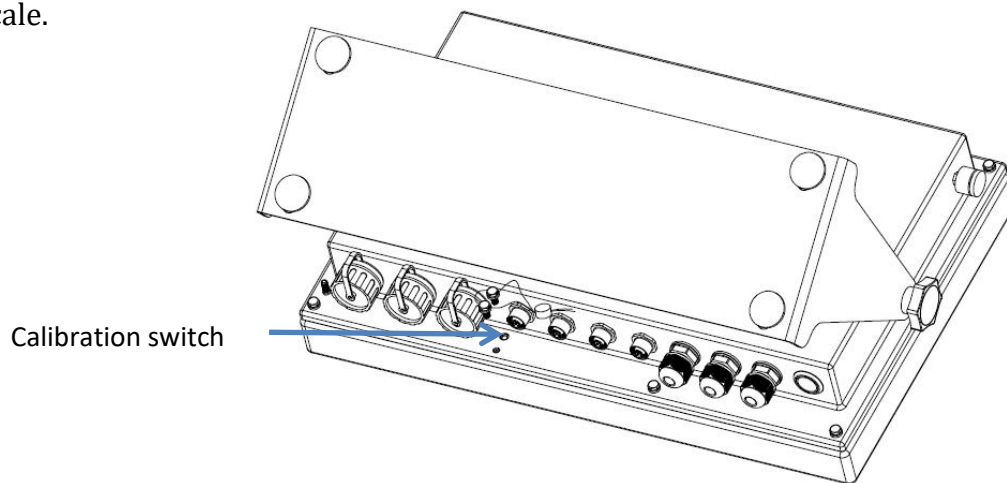
- 1 If want to enter weighing setting , it’ s required to press calibration switch,that is locating back side of the indicator.
- 2 Click each parameter of weighing setting , select the value from the drop down list.

- 3 Once configured the settings ,it is required to click **save** button to save the new settings.

Mode	Single range	To select the range mode from the list
	Dual interval	
	Dual range	
Decimal place	0.000	To set the Places of decimal point ,default is 0.000 for approval mode
Initial-zero range	10%	To set the Initial zero range ,default is 10% for approval mode
Semi-auto - zero range	2%	To set the Semi automatic zero range ,default is 2% for approval mode
Zero tracking range	0.5d	To select the zero tracking range from the list,default is 0.5d for approval mode
Capacity	Max 1	The two capacities are used for dual interval & dual range settings.To select the capacity from the list.
	Max 2	
Division	5	The two divisions are used for dual interval & dual range settings.
	10	

5.8 Calibration

To enter the calibration, it is required to press calibration switch, it is located below the scale.



1 Click **CALIBRATION** to calibrate the scale.

Enter the local gravity value in the gravitational acceleration field.

2 Click **Start**

Keep the pan empty and click<calibrate.zero>.

3 Please enter calibration weight , Enter full capacity calibration value(for example :10kg) in the blank field.

4 Load the weight

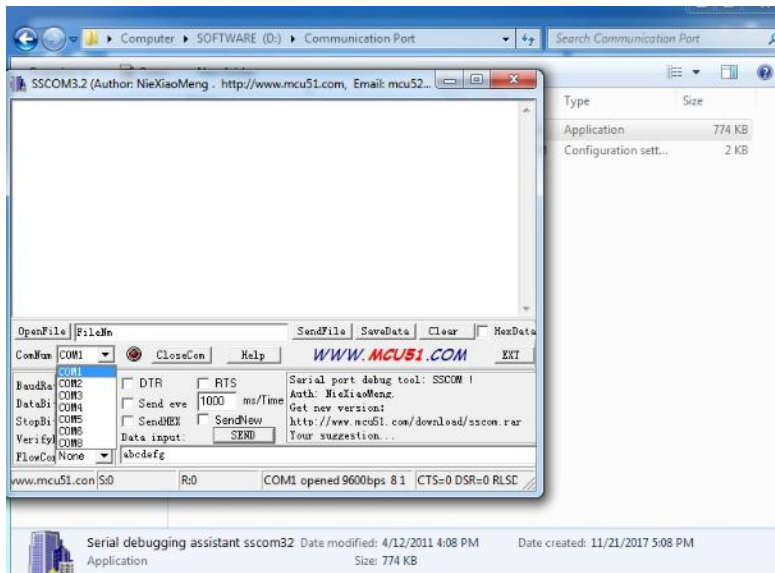
5 When the stability symbol is displayed, click the correction button to finish the calibration

5.9 Touch Screen Calibration

- 1 Click “**PM**” software (PenMount 6000 USB) in the right corner of display to enter.
- 2 Select the **control panel** option to calibrate the screen.
- 3 Open the device and click **Standard Calibration** button.
- 4 It will be asked to Calibrate the touch screen in 4 points as per the following from the screen prompt.
- 5 Long press the red square circle target ,follow to next calibration points until the display shows “calibrate success” prompt.

5.10 Com Testing

- 1 Click <com assistant> to enter com testing in desk of scale;



- 2 Select COM 1/COM5 /COM6 from the drop down list;
- 3 Baud rate :115200;
- 4 Send content in data input field
- 5 The display will show continuous weighing data .

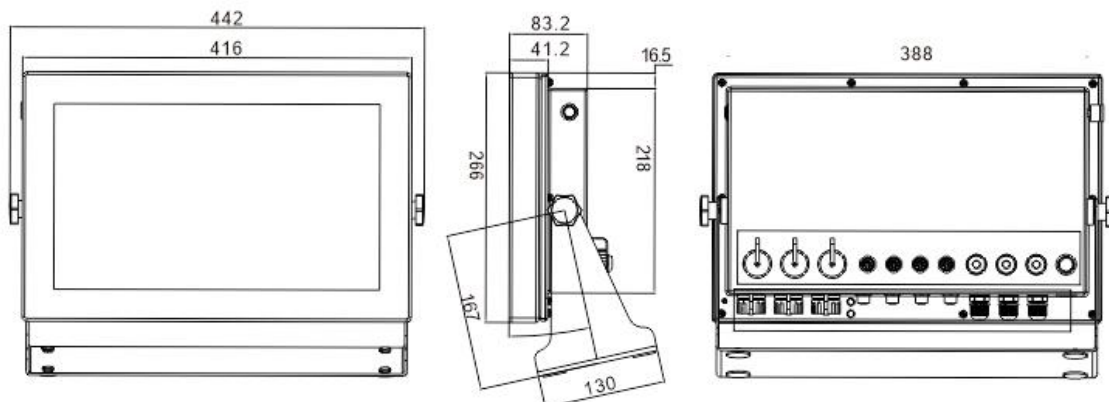
6. SPECIFICATION

6.1 Specification

MODEL	X15-PC
Display	15.6" TFT LCD
Display Resolution	15.6": 1366*768
Max. Divisions	30000d
Weighing Units	kg
Accuracy Class	Class III
Housing	Stainless Steel housing
Touch Control Mode	Resistance Screen
OS	Windows7_32 or windows 10 operating system
CPU	Intel® Bay Trail SoC J1900 Processors 2.0GHz
RAM	4G Quard Core
Data memory	64G NAND flash
Interface	2*RS232; 2*USB2.0; 1*RJ45 ;WIFI;Second platform
Operation Temperature	0° C to 40° C
Operation Humidity	<85%
Stabilisation Time	1 Seconds typical
Power	100~240VAC main power cord
ADC	Sigma delta
Internal counts	600,000
Net weight	6.73 kg
Gross weight	7.5 kg
Dimension	L:442xW:266xH:130

***Specifications are subject to change without notice

6.2 Dimension



7. Cleaning and Maintenance

7.1 Preventive Maintenance

- 1 Switch off and unplug the device from the mains before cleaning.
- 2 Do not open the device during cleaning.
- 3 Make sure that no fluids get inside the device.
- 4 Do not use organic acid, alkaline solutions, scouring powders or plastic dissolving cleaning agents for cleaning.
- 5 Do not spray directly on the device.
- 6 Avoid strong pressure or scratching the surface with hard, sharp or pointed objects.

7.2 Cleaning housing and display

- 1 To clean touch screen and customer display, Only use a soft, clean cloth dampened with mild detergent and water to clean the display screen.
- 2 To clean device housing and platter, using a soft, clean cloth dampened with a mild cleaner or detergent and water.
- 3 After cleaning, plug the scale back into the mains and turn it on.

8. TROUBLESHOOTING

Problem	Possible cause	Common solutions
Cannot turn on power	Mains power is turned off Power supply is not plugged in Power supply faulty Internal battery is not charged Display is turned off	Check power switch is turned on, and power LED is working. Verify the voltage going to the scale matches the power supply labels on the power module or scale.
Display is unstable	Air variation Pan is in contact Sample is moving (animal weighing) Vibrations from table Dramatic Temperature changed Power supply / battery faulty	Verify the scale is in an acceptable location and on a good table / surface. Verify the power supply is correct for the scale.
Weight value incorrect	Calibration error, Recalibrate Linearity error, Linearity calibrated with inaccurate weights Balance not leveled some materials between the sample and cover Wrong weighing unit displayed	Calibrate again, pay attention to the test weight used, the stability of the scale, and the required weighing unit. If it's required do the linear calibration. Check pan is installed correctly. Verify installed in an acceptable location.
Cannot use Full Capacity	Overload Stopper touching pan support or bottom of the load cell Transportation lock not removed, A/D circuit problem, Parameters set incorrectly, Load Cell or mechanics Damaged	Verify any objects under the pan or load cell, transporting lock, and verify pan installation. Check the weighing units used.
Not Linear	Overload stopper touching, Load cell or mechanics damaged A/D damaged	Verify any objects under the pan or load cell, transporting lock, and verify pan installation. Re calibrate and linear calibrate with ideal standard weights
Off Center Loading error	Adjust mechanism. Overload Stops not correct. Load Cell damaged	Verify any objects under the pan or load cell, transporting lock, and verify pan installation. Ensure load cell fixed correctly.
Touch screen incorrect	Touch screen need do correction Housing assembled by over tighten.	Connect a mouse, use mouse to enter touch screen correction for to calibrate touch screen. Loose housing screws, if overtighten.
System hang	Software error, need restart	Hold ON/OFF key for 6 seconds to restart the scale. Disconnect battery and charger, connect again and turn on the power



Declaration of Conformity

Manufacturer	Trúmax Electronics Mfg. (Kunshan) Co., Ltd
Model	X15-PC
Report No	18230EC10229201
EMC Directive	2014/30/EU
Applicable Standards	EN 55032:2015+A11:2020 EN 55035:2017+A11:2020 EN IEC 61000-3-2:2019 EN 61000-3-3:2013+A1:2019

Note: The declaration is only valid if the non-automatic weighing instrument was verified by the manufacturer or with a certificate of conformity issued by a notified body.

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All information contained within this publication was to the best of our knowledge timely, complete and accurate when issued. However, we are not responsible for misimpressions which may result form the reading of this material.

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