



Operation Manual

T7_NS7_E7_D10_S10_S15

Weighing Indicator

A4.50

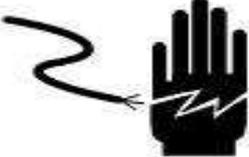
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1. PRECAUTIONS

	 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
<ul style="list-style-type: none"><input type="checkbox"/> Permit only qualified persons to service the instrument<input type="checkbox"/> Before connecting or disconnecting any components, remove the power.<input type="checkbox"/> Failure to observe these precautions bodily harm or damage to or destruction of the equipment.

SAFETY INSTRUCTION



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

The device must only be operated by personnel trained in the operation of this equipment.

The operating personnel must read and understand the safety instructions in these operating instructions.

To prevent any accident, only qualified service personnel is authorized to open this device!

Verify the local voltage and receptacle type are correct for the scale.

Only use original adaptor, other could cause damage to the scale.

Pluggable equipment must be installed near an easily accessible socket outlet.

To prevent load cell, Avoid load the weight exceed the maximum capacity on the platform

To prevent the keys, Do not scratch the keypad with a sharp object

Avoid unstable power sources. Do not use near large users of electricity such as welding equipment or large motors.

Avoid sudden temperature changes, vibration, wind and water.

Avoid heavy RF noise.

Do not install the scale in direct sunlight.

2. PRODUCT DESCRIPTION

2.1 General

The T7_NS7_E7_D10_S10_S15 Series weighing Indicator include full-fledged features, interfaces, it can be developed to meet the Industrial applications.

Major Features

- 10.1" TFT touch screen for Model D10&S10, 7" TFT touch screen for Model T7_NS7_E7
- 15.6" TFT touch screen for Model S15
- Stainless steel housing for Model S10&S15&NS7, ABS plastic housing for Model T7_E7_D10
- Built-in thermal printer for Model E7
- 5 mechanical keyboard for Model T7_NS7_E7
- Multi-user permission management
- Weighing units conversion (kg/g/lb/oz/t)
- Counting by sampling or entering unit weight; percentage weighing; tolerance checking
- Accumulation mode with manual accumulation, auto load accumulation and auto unload accumulation
- Up to 9999 PLUs capacity ,supported to display alphanumeric PLU information
- Up to 10 ID for editing
- Reports Management: Daily, Monthly, Product reports, client reports, ID group reports, operator reports.
- Multiple language selection
- Alibi memory storage
- Different methods of communications: RS232/RS422/RS485 , Ethernet, Wi-Fi, USB2.0 Host for Scanner

interface

Datamanagementwithbackupandrestore

Backofficemanagementsoftwarecouldupdatetothescalewithnetworking

Alloptionsarecontrolledfrommenu.Nospeclistprovidedandeasytooperate.

2.2 Over View

Model:T7



- 1 5 mechanical keys
- 2 Hand knobs
- 3 Indicator Holder
- 4 7 inch TFT touch screen
- 5 Charge indicator
- 6 Power indicator

Model: NS7



- 1 Keyboard
- 2 Hand knob
- 3 Indicator Holder
- 4 Power indicator
- 5 Charge indicator
- 6 7" touch display

Model:E7



- 1 7 inch TFT touch screen
- 2 Built-in printer
- 3 5 mechanical keys
- 4 Power indicator
- 5 Charge indicator

Model:D10



1 10.1" TFT touch display

2 On/Off key

2

Model:S10



- 1 10" TFT touch display
- 2 Hand knob
- 3 Indicator Holder
- 4 On/Off key

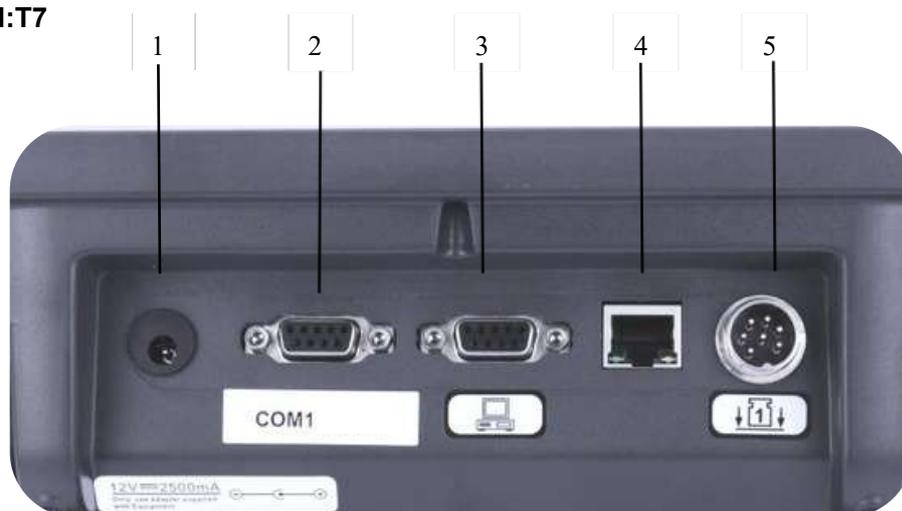
Model:S15



- 1 15.6" TFTtouchdisplay
- 2 Hand knob
- 3 Indicator Holder

2.3 Interface

Model:T7

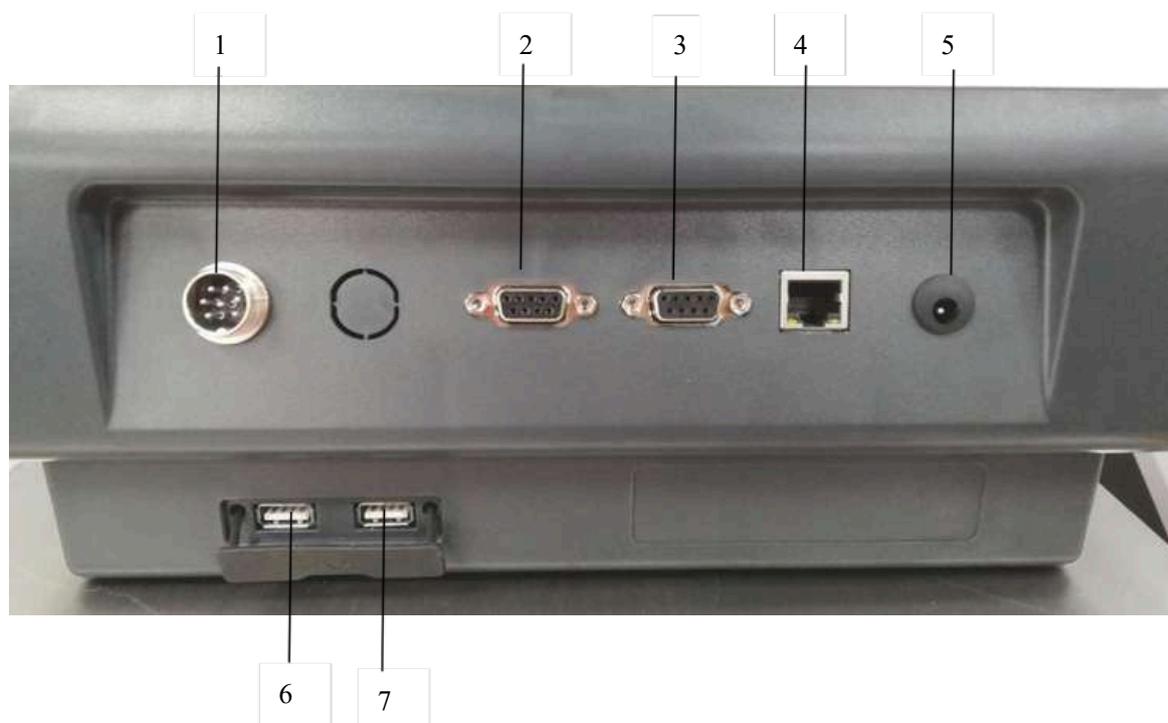


No.	Interface	Qty	Remark
1	AC adapter jack	1	For connecting adapter
2	RS232	1	For connecting computer / printer/alarm light/ Remote display
3	RS232/RS422/RS485	1	For connecting computer / printer/ Remote display/Second platform
4	RJ45	1	Support 10M/100M Ethernet
5	Load cell connector	1	For connecting load cell
6	OTG	1	For updating system software
	USB2.0		For USB disk/ scanner /data transfer,don't use for charging other device
7	USB2.0	1	For USB disk/ scanner /data transfer,don't use for charging other device

Model: NS7



No.	Interface	Qty	Remark
1	RJ45	1	Ethernet (Giga LAN)
2	RS-232	1	For printer or other supported equipment
3	OTG	1	For update system software
	USB 2.0		For mouse, keyboard, bar code scanner, avoid using for charging other device
4	USB 2.0	1	For mouse, keyboard, bar code scanner, avoid using for charging other device
5	Load cell connector	1	For connecting load cell

Model:E7

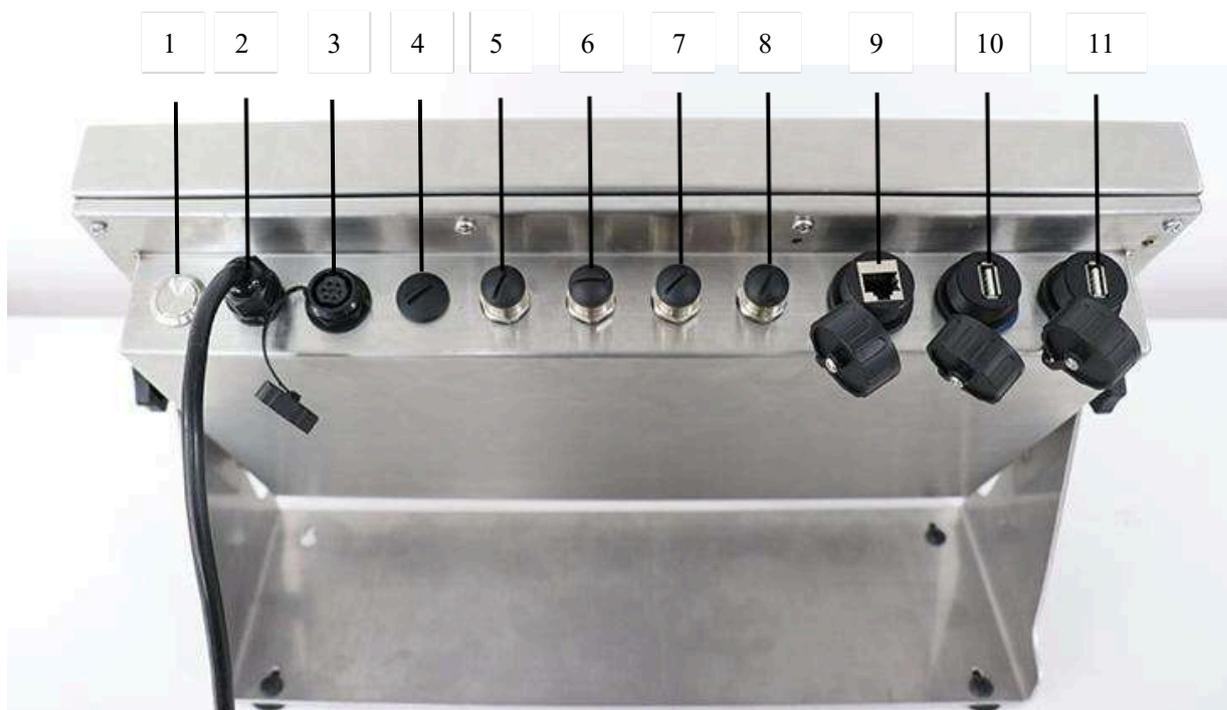
No.	Interface	Qty	Remark
1	Load cell connector	1	For connecting load cell
2	RS232	1	For connecting computer / printer/alarm light/ Remote display
3	RS232/RS422/RS485	1	For connecting computer / printer/ Remote display
4	RJ45	1	Support 10M/100M Ethernet
5	AC adapter jack	1	For connecting adapter
6	OTG	1	For updating system firmware
	USB2.0		For USB disk/ scanner /data transfer,don't use for charging other device
7	USB2.0	1	For USB disk/ scanner /data transfer,don't use for charging other device

Model:D10

No	Interface	Qty	Remark
1	Load cell connector	1	Used to connect analog load Cell
2	Power Switch	1	Used to switch on/off power
3	Power Socket	1	Support100V~240VAC
4	OTG	1	For update system software
	USB 2.0		For mouse, keyboard, bar code scanner,avoid using for charging other device
5	USB2.0	1	For data transfer,don't use for charging other device
6	RJ45	1	Support 10M/100M Ethernet
7	COM1	1	RS232-communication port ,For computer or printer,alarm light
8	COM2	1	RS232/422/485 communication port
9	Input	1	Used to connect the controlling signal less than 5V voltage
10	Output	1	Used to connect the alarm light or signal lights.

Model:S10

No	Interface	Qty	Remark
1	WIFI module	1	Used for WIFI network connection
2	Load cell connector 1	1	Used to connect analog load Cell
3	Load cell connector 2	1	Used to connect the second platform (option)
4	COM1	1	RS232 ,for computer or printer ,alarm light
5	COM2	1	RS232/485/422 communication port ,for computer or printer
6	Input	1	Used to connect the alarm light
7	Output	1	Used to connect the signal lights.
8	OTG	1	For update system software
	USB 2.0		For mouse, keyboard, bar code scanner,avoid using for charging other device
9	USB2.0	1	For data transfer,don't use for charging other device
10	RJ45	1	Support 10M/100M Ethernet
11	Power Socket	1	Support AC 110v~240v
12	Power Switch	1	Used to switch on/off power

Model:S15

No	Interface	Qty	Description
1	Power Switch	1	Used to switch on/off power Support AC 110v~240v
2	Power Socket	1	Used to connect load Cell Used to connect second platform
3	Load cell connector	1	N.A N.A RS232 communication port ,For computer or printer
4	Load cell connector	1	RS232 communication port,For computer or printer Support
5	/	1	10M/100M Ethernet For mouse, keyboard,avoid using for
6	/	1	charging other device For mouse, keyboard, avoid using for
7	COM1	1	charging other device
8	COM2	1	
9	RJ45	1	
10	USB2.0	1	
11	USB 2.0	1	

3. INSTALLATION

3.1 Unpacking

- 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. Indicator
2. Manual

3.2 Installation

- Place the Indicator on a table

Connect the platform load cell cable in to the indicator load cell connector. Load cell connector is locating back side of the indicator.

3.3 Load cell connections

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

7Pin Connection	
Pin1	Signal-
Pin2	Signal+
Pin3	Shield
Pin4	Exc-
Pin5	Sen-
Pin6	Sen+
Pin7	Exc+

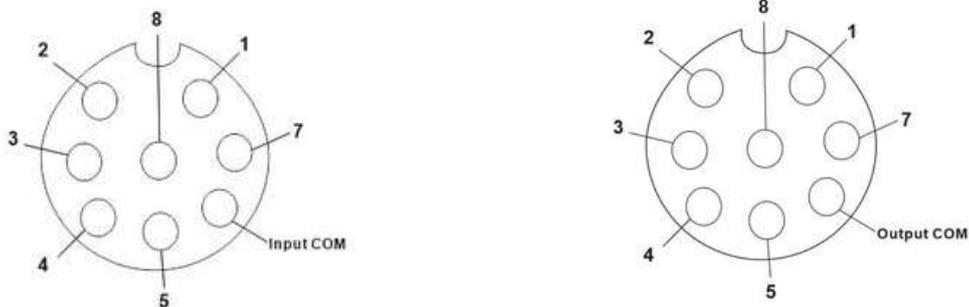
3.4 Power Connection

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

3.5 I/O Port connections

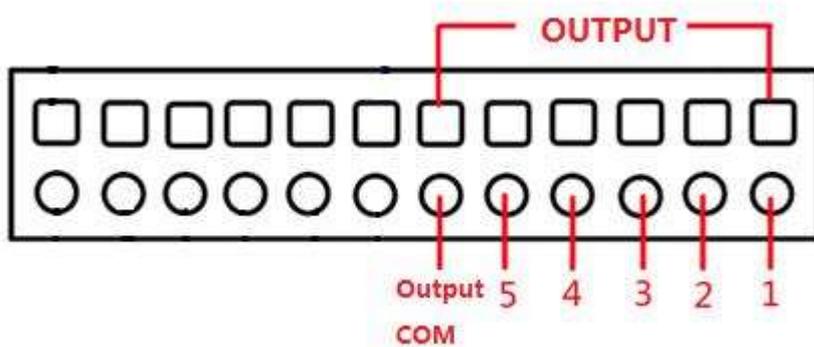
Model: S10/S15

The I/O port allows to connect the alarm light or signal light ,the connections are shown as following picture.



Model: D10

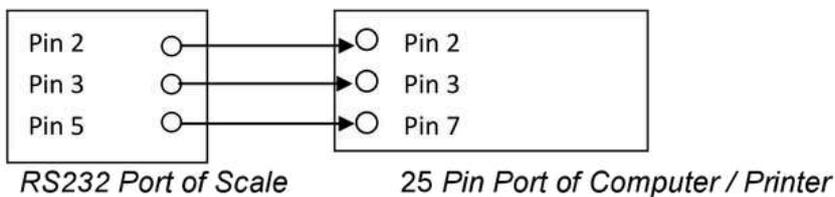
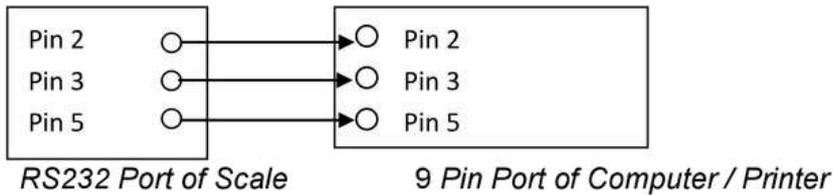
The I/O port allows to connect the alarm light ,the connections are shown as following picture.



3.6 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

3.7 Rechargeable battery

Note: Please charge the battery before using the scale for the first time .

- The low voltage battery symbol on the weight display indicates that the battery is getting low. It's time to charge the battery with the AC power. If scale goes on being used without proper charging, a message <To turn it off,battery low ,please charge> will be pop up in the display. Please use the supplied battery charger
- for charging the battery immediately,or scale cannot be used.

3.7.1 Charging the battery

□ □ Before the first use, the battery should be charged by connecting it to the mains power supply for at least 5 hours.

When the scale is plugged into the mains power the internal battery will be recharged.

Verify that the AC power socket outlet is properly protected.

There is an battery symbol at the upper side of display to indicate the status of battery charging.



Fully charged



Low voltage

3.8 Paper Roll loading or unloading

Only available for Model E7



1. Press the button, open the printer cover



2. Load / unload Paper rolls



3. Close Cover group, Press both side to close correctly



4. Pull the paper outside of the printer cover

3.9 Start Up



Putting into operation.

The device has been installed properly and connected to the mains power supply.

1) Switch on device

Long press power-on button until hearing the "beep" sound and the scale is on.

2) Power off

Method 1: Press  key at the main menu screen, and press "PowerOff" at the popup screen to power off

Method 2: Long press power-on button, the power will be off.

Note: Avoid disconnecting the mains power supply directly when switch off the scale, otherwise the weighing data will be lost.

3.10 Transport and Storage

Always transport and store the device in its original packaging.

3.10.1 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&KEYS FUNTION

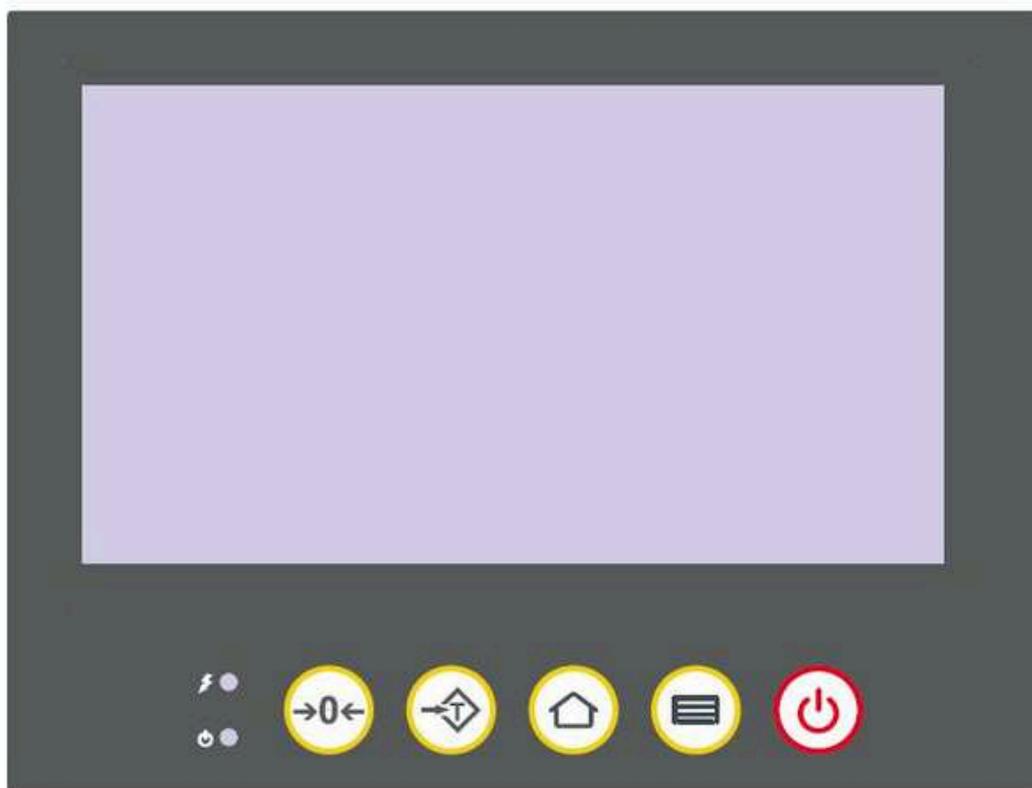
Model: T7



Model: NS7



Model: E7



Keys	Description
	<p>Power on Press and hold  key until to hear a beep sound. It will take around 30 seconds to run the TOS operating system and application software.</p> <p>Standby Press  key to keep display standby/sleep. Press ON/OFF key again for to turn on the display.</p> <p>Power off Press and hold  key until to show a Power Off window. Touch option YES to stop power off or NO to back to use.</p>
	Press key for to go to the menu operation, a menu table will be show at the bottom of the display.
	Press key 5 seconds from any 5 in 1 operation can get back to home display
	Press key for to tare the scale. The weight that was displayed will be store as the tare value and that value will be subtracted from the measurement, leaving zero on the display. The "Net" indicator will be on.
	Press key to set the reading to zero (within the allowed range of 2% max). Usually it's required only when the platform is empty. When the zero point is obtained, the zero indication will be show

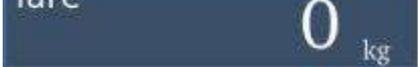
4.1 Indication Description



Keys	Description
	Product/Material group. Touch key to view products list and recall products information
	Client/Customer Touch key to view client list and recall clients information.
	ID 1 ~6, Free Setting ID keys, Touch key to view list and recall information.
	ID Groups
	Touch key to view ID's list and recall ID's information. ID keys window up or down
	Clear ID Touch key to clear ID contents
	Record Touch key to check all weighing records.
	Save and Print Touch key to save and print records.
	Gross/Net Touch key to get the Gross / Net weight.

 Sample	Sample Touch key to input samples.
 g+ UW	Unit weight Touch key to input unit weight.
	Clear Unit Weight clear key, in counting operation
 C Clear ID	Clear the current product ID information
 Feed	Feed key, to test printer
 x10 X10	By using x10, you can see high precision
 Menu	Menu buttons to bring it back to the main page
 Tare	Button the weight button so that the weighing data on the scale can be deducted from its weight within the throwing range.
 Zero	Return to zero button, so that the weighing data on the scale can be returned to zero within the range of return to zero.
 I/O I/O	I/O Key Quick Switch
 31 Calendar	Set Kill-date key, can quickly add kill-date
 Start	The function of printing totals, can print a total label after weighing the last item
 N Print time	Print times button, set the total print times of an item
W eigh t/C oun t	Press the “weight” or “count” words in the window, the normal weight screen or count screen will be switched to big screen
Note: Each ID text names may vary; it's depend which has been input	

4.2 Indications

Indications	Description
	when the scale back to zero or by pressing  key
	When Tare, by pressing  key
	When the scale is in stable.
	Maximum capacity of the scale
	Minimum weight of the scale
	Division of the scale
A4.50	Software version
	Date and time
	Ready for weigh
	Drive In/ Loading
	Stable; Ready for record
	Tare weight window in weighing operation
	Gross weight window in weighing operation
	Unit weight window in counting operation

4.3 On-Screen Keyboard

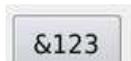
On-Screen Keyboard will be open automatically to edit or input new data,



: Backspace



: When input text, use this key to change line

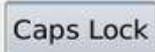


: Special symbols and numeric keys.



: Close key board



or  :ShifttoCapitalletter/smallerletter.



: Press here to change sign

4.4 Main Menu



Icon	Description
	ID settings
	Print format setting
	Settings
	Mode setting
	Reports Management
	Import and export reports
	Weighing Units setting
	Login /log out
	Launcher
	On/OFF key
	To test Built-in printer,only available for S10/S15 model

5. OPERATION

5.1 Power On/Off

Power on

Press and hold  key until to hear a beep sound. It will take around 30 seconds for the TOS operating system and application software.

Standby

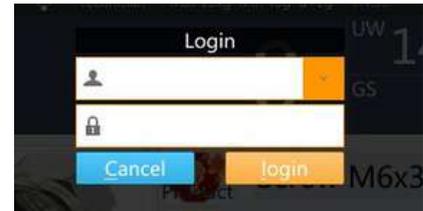
Press  key for to keep display standby / sleep. Press ON/OFF key again for to turn on the display.

Press and hold use.

5.2 Log in  key until to show a Power Off window. Touch option YES to power off or NO to back to

It allows multiple users to operate the same scale

1 When power is on, it may be asked to input the account and password to log in.



2 Select the account from the drop down list
Entered password by numeric keys and confirmed By clicking log-in key



Note: The account and password should be configured in ID settings, once finished setting, scale will be start to self-checking and then enter to login mode.

5.3 Zero Setting

Zero setting allows to do by pressing  key, only it's possible when the load receptor is not in motion.

5.4 Tare

5.4.1 Semi-automatic tare

The indicator is provided with a semi-automatic subtractive tare.

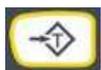
The weight of any container can be tared by pressing



button so that with subsequent weighing the net weight of the object being weighed is always displayed.

Tare Operation:

1 Load weight on the platform.



2 Press key. Zero is displayed, and tare is subtracted.

3 Remove weight on the platform. Tared weight is displayed. It can set only one tare value. It will be shown with a minus value.



4 This Tare value can be cleared by pressing key, when there is no load on the platter. This tare entry cannot take place, if the platter is in motion.

5.4.2 Automatic tare

The weight of any container can be tared automatically, to enable automatic tare function, see parameters Menu > operation setting > Auto Multi-Tare > ON

1 Load a container on the platform, it will be heard a "beep" sound.

2 ZERO indicator and TARE indicator appears.

3 Zero is displayed in NET window, the subtracted value appears in the tare window.

4 Load the weight in the container, the NET window shows net value with a "beep" sound.

5 Remove weight from the platform. Tared weight is displayed. It can set only one tare value.

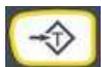
6 Remove the container from the platform, display shows zero with a "beep" sound.

5.4.3 Multi-Tare

The weight of any container can be multiple tared, to enable multi-tare function, see parameters Menu > weighing setting > Tare operation > Multi-Tare Enable

Tare Operation:

1 Load weight on the platform.



2 Press key. Zero is displayed, and tare is subtracted.

3 Remove weight on the platform. Tared weight is displayed. It will be shown with a minus value.



4 This Tare value can be cleared by pressing key, when there is no load on the platter. This tare entry cannot take place, if the platter is in motion.

5.4.4 Preset Tare

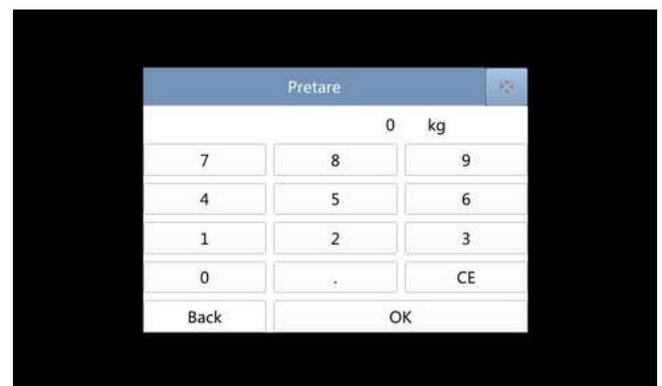
5.4.4.1 Store Pre-set Tare

Method 1:

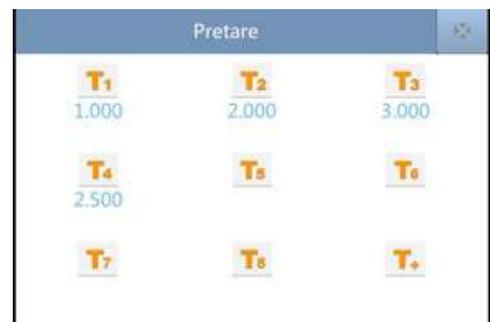
- 1 Hold  key 2 seconds, display show(T1~T9) Tare keys.



- 2 Hold the pre-tare key, entered the tare Value by numeric keys.

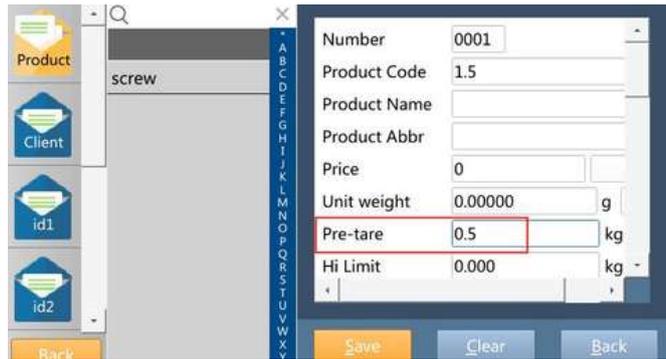


- 3 Confirmed by pressing [ok] key, the pre-tare value can be stored in memory



Method 2:

The pre-tare value of product can be set
 In ID settings, please see ID setting
 >Product>pre-tare



5.4.3.2 Recall Pre-tare value

1 Load the weight on platter, display show Net weight.



2 Hold  key 2 second store call (T1~T9) Pre-tare values.



3 Select the tare value as you need
 Tare display show pre-tare value and

4 Place the item on the pan and wait to get weight stable, display show net weight.



5 Remove item from the pan, the net window show negative value. Press  key to clear tare value.

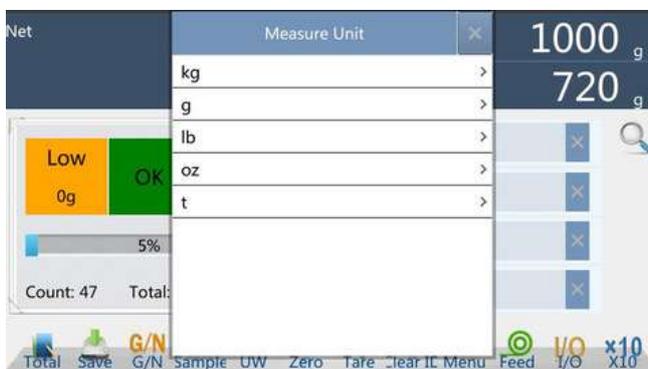
5.5 Weighing units

AA7 series has 7 weighing units (kg/g/lb/oz/tj/hj/t), To enable the weighing units, please see parameter MENU>UNIT

1 In normal weighing mode, press  key to enter main menu ;



2 Press  key to select the weighing units to be used.



3 Once selected the new weighing units, scale will weighing in new weighing units



5.6 Weighing Operation

5.6.1 Enter Product ID



Press  key to view pre-set product names from the list,

0001	Agro Ch
0002	Air Conditioner & Parts
0004	Basmati Rice
0005	Bed Spreads
0006	Belts
0007	Cement Boards
0008	Cementing Products
0009	Ceramic Tiles
0010	Chemicals
0011	Chicken Products

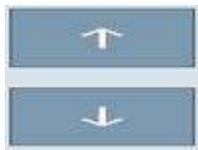
Product list Search:

0007	Cement Boards
0008	Cementing Products
0009	Ceramic Tiles
0010	Chemicals
0011	Chicken Products
0012	Earth Moving Machines
0013	Eggs
0014	Electrical Accessories
0015	Engine & Parts
0017	Fabrics

Press alphabetic keys to search list



Input name to search



Press up / down arrow keys change page



Press key to add new name



Press key to go back from the settings

5.6.2 Enter New Product Name

If want to enter a new product name,

Press product name screen to enter



Press here to edit/input new name

5.6.3 Enter Client ID

Press  key to select a pre-set company as client,

0081	Sanitary Equipment company
0001	Advertising Agencies
0002	Aggregate & Sand Suppliers
0003	Agricultural -horticultural & Eq
0004	Air Conditioning - Manufacture
0007	Broadcasting Equipment Supp
0006	Building Chemicals
0005	Building Material Suppliers
0008	Burners Suppliers
0010	Cement Dealers & Stockists

Client list Search:

0064	Office Furniture - Retail
0061	Office Supplies
0060	Offshore Construction & Servic
0063	Oil & GaS Integrity Services
0062	Oil & Gas Suppliers
0069	Packaging Manufacturers & Su
0065	Photocopier Suppliers
0066	Photographic Equipment & Sup
0070	Picture Frames Eqpt
0067	Pipe & Pipe Fitting Suppliers

Press alphabetic keys to search list

Input name to search

Press up / down arrow keys change page

Press key to add new name

Press key to go back from the settings

Enter New Client Name

If want to enter new client name, Press client name screen to enter

Press here to edit / add new client name

5.6.4. More ID (Free Setting ID's)

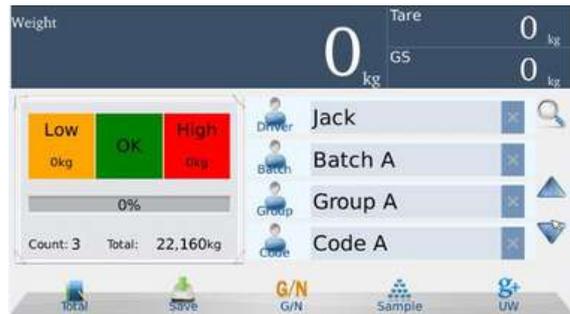
For Settings See Operation Setting > ID Settings
 Once enable all ID from the setting's, it can view from the home display



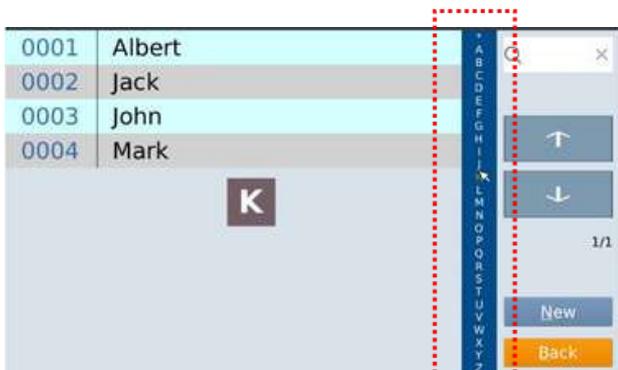
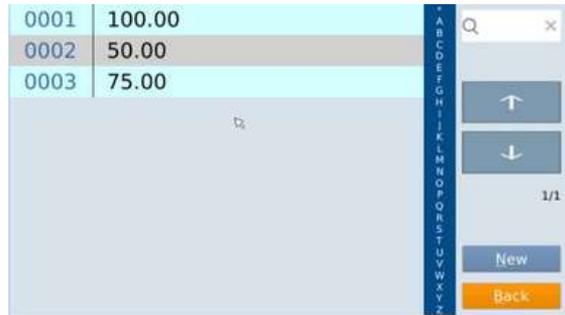
ID Options Disable for more ID's



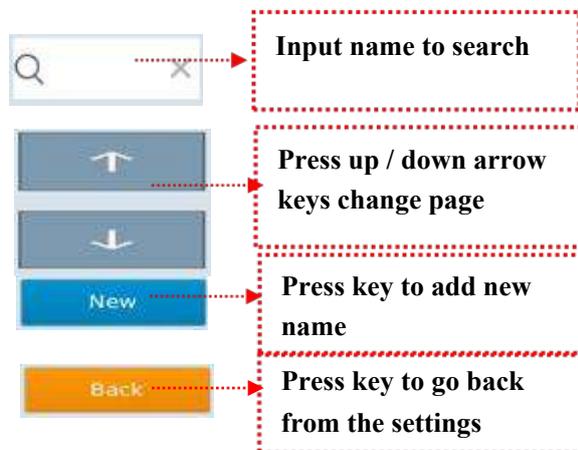
ID Options enable to use more ID. It can use  and  keys change the ID's page



ID list Search:



Press alphabetic keys to search list



Enter new ID name

If want to enter new name,
Press ID screen to enter



5.6.5. Group ID Operation



Group option, to recall particular ID's for weighing.

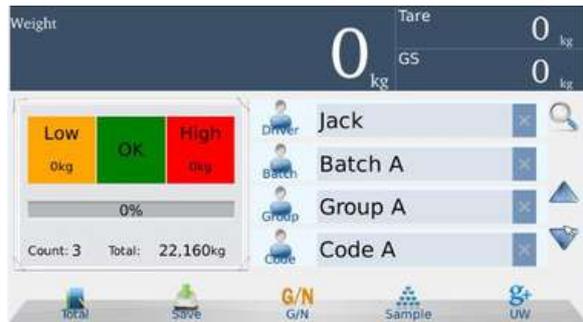
When it's required to use same particular ID's for weighing, it could save into as a group to recall.

Further no need to select each ID every time for weighing. Just recall from the group, if its saved in the group.

Create a ID Group



Input ID names into all fields



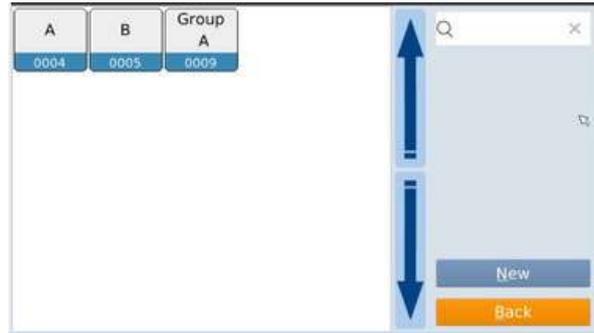
Press and hold  key 3 seconds to save as a group.

Window will be open to input & save as a Group.



Input Group name and confirm by pressing OK Key.

It will save into Group ID management to recall and use for an easy operation



5.6.6 Save and Print



When display gets “stable,” press key to confirm and print the ticket.

5.7 Parts Counting

Weigh a sample to calculate the unit weight to determine the average weight of items to count, put a known number of pieces on the scale . The balance of the total weight divided by the number of samples and displays the unit weight.

Note:Before operation scale should be stable and return to zero, sampling available only when weight more than 20d .

5.7.1 Enter Counting Number

Make sure platter empty and display return to zero.



Put a container on platter and press key if necessary.

Place a unknown amount of pieces on the scale.



Press  key to confirm when scale stable.

It will be asked to input sample quantity.



- Using numeric keys to input the sample quantity, eg: 10
- Confirm by pressing [OK] key.
- The average piece weight of item will be calculated and then the number of items displayed in count window.



Add the rest of items on the platter, weight and number of items will be increased.



Remove the items, the average piece weight will remain stored in memory for the next counting of similar pieces.



- To execute a new reference operation repeat the operations as described .
- Press  key to back to normal weighing mode.

Note: The weighing may be amended on the basis of greater numbers of samples improves the accuracy of counting large quantities

5.7.2 To input the known average piece weight of item

□ Make sure platter empty and display return to zero.

□ Press  key ,It will be asked to input unit weight.



□ Input the average piece weight of item with numeric keys.

□ Press [OK] key to confirm.

□ Press [YES] to update unit weight.



Add new items on the platter, weight and number of items will be displayed.



□ **To execute a new reference operation** repeat the operations as described .

□ Press  key to back to normal weighing mode.

5.7.3 Automatic Part Weight Updates

To optimize the calculated average piece weight automatically, add further parts whose number is smaller than that of the first reference determination.

For each reference optimization the average piece weight is newly calculated.

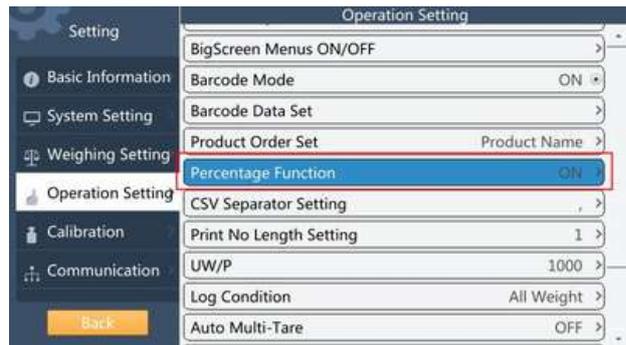
As the additional pieces increase the base for calculation, the reference also becomes more exact.

Automatic reference optimization will be deactivated as soon as the number of added parts exceeds the saved reference quantity.

5.8 Percentage Weighing

The scale can set a sample weight to be shown as 100%. Then any other weights place on the scale, it will be displayed as a percentage of the original sample. To enable the percentage function, please enter parameters

Setting> Operation Setting > percentage function> on



0.100 kg weight place on the scale and follow by press the



key is pressed the display will show

100.00%.



Remove the weight, and ensure display is zero.



Place 1.66kg weight on the platform, display will be show 166.0 % as per the percentage of 0.100kg (100%).



Press and hold  key to go back to normal weighing mode.

The weighing may be amended on the basis of greater numbers of samples, improves the accuracy of percentage large quantities.

Note: If the weight is less than 20d, it will pop up a prompt "sample low"

5.9 Accumulation

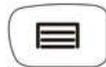


The scale can be set to accumulate manually by pressing

 key. Only the total counts will be saved in memory.

Before operation scale should be stable and return to zero, accumulation available only when weight more than 20d.

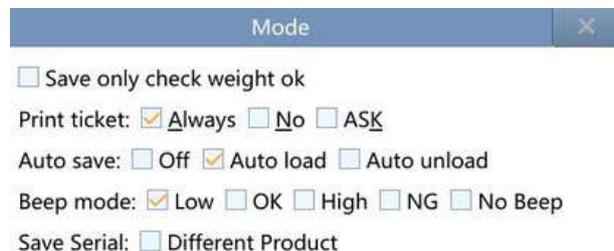
In normal weighing mode, press



key to enter main menu;



Click  key to select mode options;



Off: Auto saving function turned off

Auto Load: Data will be save while loading and once get stable

Auto Unload: Data will be save while unloading goods from the platform

5.9.1 Manual Accumulation

- 1 Place the load on the platform, the weight display will be show the net weight.



- 2 Press  key, when STABLE indicator on.
- 3 Total counts and weight will be displayed with beep sound .
- 4 Remove the weight from the pan.
- 5 When display get zero and stable then place the second weight.

- 6 Press  key, when STABLE indicator on.



- 7 It can continue until the memory gets fully .

5.9.2 Auto Load Accumulation

- 1 Place the load on the platform, the weight display will be show the net weight.
- 2 When stable indicator on , a "beep" sound will be heard, display shows the count and total weight.
- 3 Remove the item and the scale will return to zero;
- 4 When display get zero and stable then place the second weight.
- 5 It can continue until the memory gets fully .

5.9.3 Auto Unload Accumulation

- 1 Place the load on the platform,the weight display will be show the net weight.
- 2 When stable indicator on ,a "beep" sound will be heard.
- 3 Remove the item and the scale will return to zero.
- 4 Display shows the count and total weight, a beep sound will be heard.
- 5 When display get zero and stable then place the second weight.
- 6 It can continue until the memory gets fully .

5.9.4 Accumulation Recall



Press Total key to view total record list

No_pri	product	Weight(kg)	Unit	Q'ty	Time	
1	888	0.102	kg	0	16:25	↑
0		0.1	kg	0	01:56	↓
0		0.1	kg	0	01:56	
0		0.1	kg	0	01:57	
2		0.1	kg	0	09:23	
3		0.1	kg	0	09:48	🗑️
4		0.1	kg	0	09:48	
5		0.1	kg	0	09:48	Export
6		0.1	kg	0	09:48	
7	888	0.1	kg	0	09:49	🎯
11		0.1	kg	0	09:49	
12		0.1	kg	0	16:17	Print
13		0.1	kg	0	16:17	Back

Item count: 53 Weight: 5.435 kg Qty: 750 pcs

①	Press up arrow keys to change page Press down arrow keys to
②	change page Press key to delete records Press key to export records
③	Feed key,to test printer for E7,N.A for AA7 Press key to print records
④	Press key to go back from the settings Click any record data to view
⑤	Record data Info from the list and print Total area
⑥	
⑦	
⑧	
⑨	

5.9.5 Export Records

Click  key to export the record lists, it's required to insert U disk into the USB port in advance.

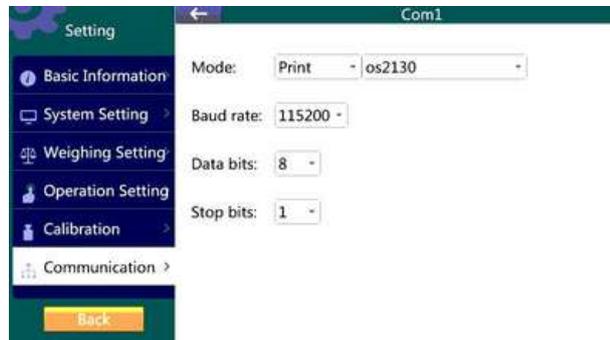
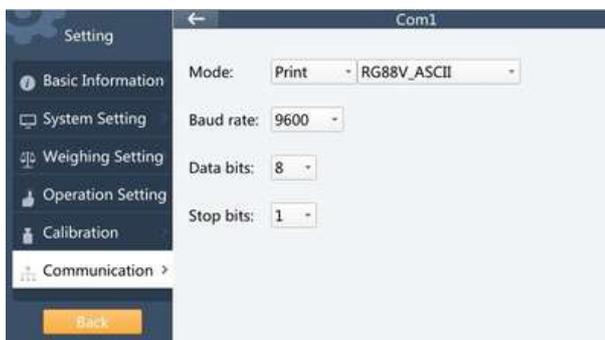
5.9.6 Print Records

The scale support to print single record and all records

Note: Refer com and Pformat settings to print, It's required to select Communication > Com and Pformat settings.

Setting > Communication > COM 1 >RG88V ASCII 9600 8 N 1 (for receipt printer)

Setting > Communication > COM 2 >OS2130 115200 8 N 1 (for label printer)



- Click  to Print all records in total record lists
- When recall total record lists, select one of the records

no.	product	Weight(kg)	Unit	Q'ty	Time
1	888	0.102	kg	0	16:25
0		0.1	kg	0	01:56
0		0.1	kg	0	01:56
0		0.1	kg	0	01:57
2		0.1	kg	0	09:23
3		0.1	kg	0	09:48
4		0.1	kg	0	09:48
5		0.1	kg	0	09:48
6		0.1	kg	0	09:48
7	888	0.1	kg	0	09:49
11		0.1	kg	0	09:49
12		0.1	kg	0	16:17
13		0.1	kg	0	16:17

Item count: 53 Weight: 5.435kg Qty: 750pcs



- Click  key, the selected records can be printed out, only available for label printer

5.9.7 Delete Records

It allows to delete single record and all records

1 Delete ALL records

Click  key to delete .



2 Select [ALL] to delete all records.

Delete single record

1 Check the single record to be delete.

2 Click  key to delete.

3 Press [YES] to confirm and press [No] to cancel.



Note: When restart the scale, the total record will not be cleared, if wanted to clear the records, please clear the records as per "Delete" steps operation

5.9.8 Accumulation for Same Product

Click  key to select different product

Load weight on the platter

Press total key to recall the accumulation records

The same product record lists will be displayed



Uncheck different products: Weighing records show record information for all products

5.9.9 Accumulation for product within hi and low limits



Click **Mode** key to select **save only check weight ok** option, it is required to set upper and lower limits for products, when the weight is between the hi and low limits, the ok records will be saved



5.10 Tolerance checking

The weighing scales allow weighing goods according to a target quantity or target weight or target percentage within specified tolerances. With this function one can also check if the weighing good is within a defined tolerance range. Reaching target quantity is indicated by an audio sound (if enabled in menu) and a visual color bar.

Note: Check weighing or counting available only when weight more than 20d

5.10.1 Beep Mode

The beep sound depends on the settings made in menu block

Options:

LOW	Beep sound will active for when it's in Low range settings
OK	Beep sound will active for when it's in the Ok range
HIGH	Beep sound will active for when it's in the High range
NG	Beep sound will active for when it's in the out of the range
No beep	Beep sound will function turned Off



5.10.2 Limits setting for target weight

- 1 Press  key to enter limits setting in Normal weighing mode.
- 2 Press [OK] key to confirm when entered the lower limits with numeric keys.
- 3 Press  key to confirm when entered the upper limits with numeric keys.
- 4 Limits setting completed, Load the weight on platter, the check weighing control will start.
- 5 To disable the check weighing function, enter zero in both limits.



5.10.3 Limits setting for target quantity

1 To enter counting mode by sampling or inputting the known unit weight of item.

2 Press **Low** **0pcs** key to enter limits setting.



3 Press [ok] key to confirm when entered the lower limits with numeric keys.



4 Press **High** **0pcs** key to confirm when entered the upper limits with numeric keys.



5 Limits setting completed, Load the weight on platter, the check counting control will start.



6 To disable the check counting function, enter zero in both limits.

5.10.4 Limits setting for target percentage

1 Press  key to enter percentage weighing in normal weighing mode.



2 Press  key to enter limits setting.



3 Press [OK]key to confirm when entered the lower limits with numeric keys.



4 Press  key to confirm when entered the upper limits with numeric keys.



5 Limits setting completed, Load the weight on platter, the check percentage weighing control will start .

6 To disable the check percentage weighing function, enter zero in both limits.

Notes Check weighing available only when weight more than 20d The function is not valid when one enters a lower limit greater than the upper limit. When lower limits are the same with upper limits, display only shows one set value

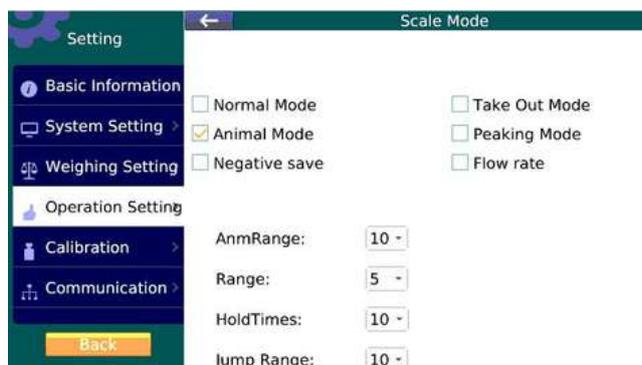
5.10.5 Tolerance Checking Mode

There are 3 checking modes for tolerance, they are check weighing mode, check counting mode and check percentage mode.

<p>When the weight below the low limits, the backlight color will be orange</p>	
<p>When the weight between the limits, the backlight color will be green</p>	
<p>When the weight exceed the high limits, the backlight color will be red</p>	

5.11 Animal Weighing

1 In normal weighing mode ,press  key to enter main menu,select setting >operation setting > scale mode;



2 Check the animal mode,and select the range and hold times for animal mode from the drop down list.

3 Click [Back] to exit setting mode ,it will be pop up a prompt,press [Yes] to save animal setting. scale will be restart and come to animal weighing mode.



4 The Animal indicator  will appear in the upper side of the weight display.



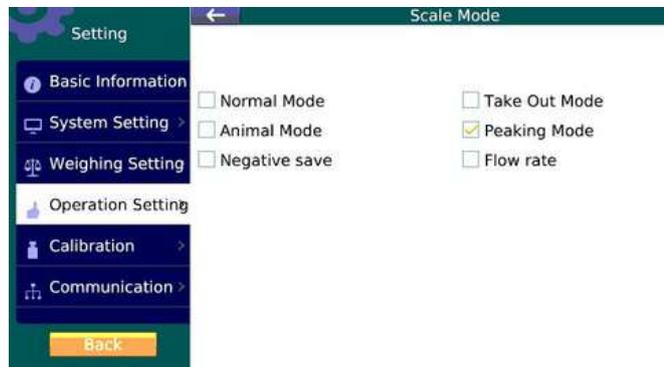
5 Place item to be weighed on the scale platform. Once the stable indicator appears with a beep sound, the final weight will be shown on the display.

6 The weight will be update when the load weight exceed the floating range and jump range.

7 To disable the animal weighing function, it's required to enter set up menu to change scale mode to NORMAL mode .

5.12 Peak Hold

- 1 In normal weighing mode ,press  key to enter main menu,select setting >operation setting > scale mode;



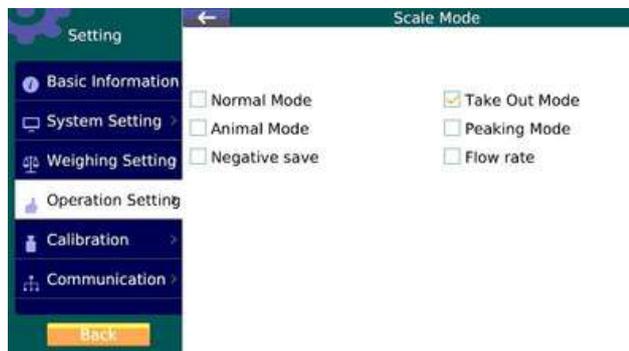
- 2 Check the peaking mode,Click [Back] to exit setting mode ,it will be pop up a prompt,press [Yes] to save peaking setting. scale will be restart and come to peaking mode.



- 3 The Peaking key will appear in the lower side of the screen.
- 4 Load the weight on the platform,the maximum reading will be hold.
- 5 Press  key,the weight will be unlock.

5.13 Take out Mode

1 In normal weighing mode ,press  key to enter main menu,select setting >operation setting > scale mode;



2 Check the take out mode,Click [Back] to exit setting mode ,it will be pop up a prompt,press [Yes] to save take out setting.



3 scale will be restart and come to take out mode.



4 Loadtotalweightontheplatter,press  keytogoweighing

5 When select "AUTO LOAD"mode,Remove the weight one by one,it will be heard "beep" sound and record will be saved

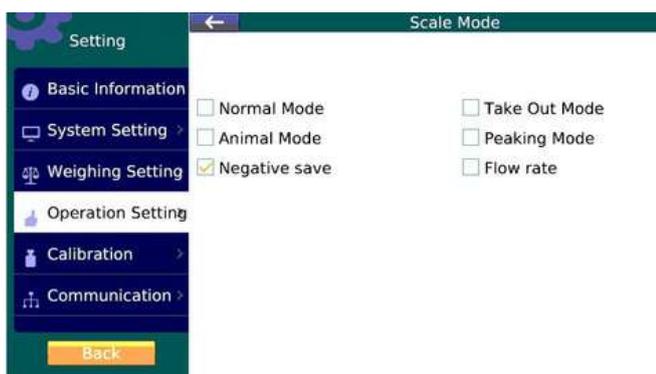


- Until all weights are removed, the screen prompts "data information to be saved".



5.14 Negative save

- In normal weighing mode, press  key to enter main menu, select setting > operation setting > scale mode;



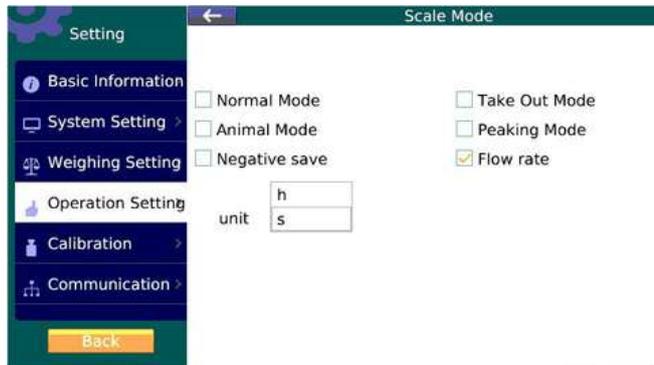
- Check the negative save, Click [Back] to exit setting mode, it will be pop up a prompt, press [Yes] to save take out setting.



- In this mode, negative values can be saved.

5.15 Flow rate

- 1 In normal weighing mode, press  key to enter main menu,select setting >operation setting > scale mode;

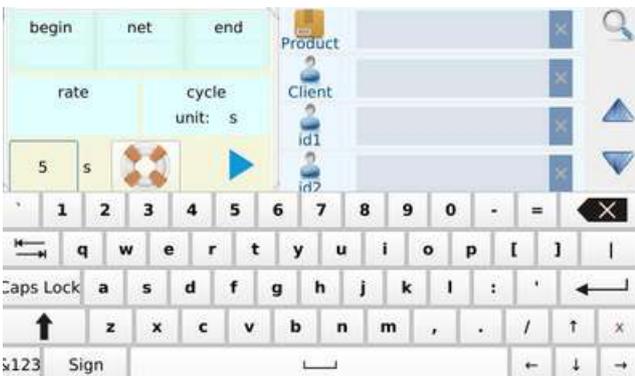


- 2 Check the Flow rate, select the unit for speed measurement: h/s
Click [Back] to exit setting mode ,it will be pop up a prompt,press [Yes] to save take out setting.



- 3 scale will be restart and come to flow rate mode.

- 4 Place the container, etc. Enter the desired duration for the test  in the box, and click  to start recording the speed of the material flow.



- 5 The preset time countdown will automatically stop recording once it ends, and it will output the weight change within the recorded unit time.



- 6 Click  to clear data and proceed with the next measurement.

6. CALIBRATION

It's allows you to do the calibration by using different ways to use in the different environments.

Please contact the service department.

Please contact the service department.

7. TECHNICAL DATA**7.1 General Specification**

Model	T7
Housing	ABS Plastic Free setting 7500e; 2x7500e;
Capacity	30000d Max-1d Sigma delta Max. 60
External Resolution	times/second 1,000,000 kg, g, lb, t,oz, kg, lb
Tare range	5VDC 0~20mv 0~5mv 1m v/v~3m v/v
AD Type	43 ohm 1600 ohm -1 0~ +40 °C
AD Speed	<85% 7" TFT LCD 800x480 16:9 Resistance
Internal Counts	Touch Screen
Weighing Unit	1xRS-232; 1xRS-232 / RS-422 / RS-485; 1x RJ-45; 2xUSB2.0; WIFI
Calibration Unit	Second platform
Load Cell Excitation	Linux
Input Signal Range	CORTEX A17
Zero Point Signal Range	1GB
Load cell Sensitivity	16GB
Minimum input	Input:100-240VAC,Out put: DC12V/2500mA
Maximum input	7.4V/5200mAh lithium battery (Option)
Operation Temperature	
Operation Humidity	
Display	
Display resolution	
Display H/V ratio	
Touch Control Mode	
Communication Interface	
Optional	
Operating System	
CPU	
RAM	
Data memory	
Power	
Battery	

Model	NS7
Housing	Stainless steel
Capacity	Free setting
External Resolution	7500e; 2x7500e; 30000d
Tare range	Max-1d
AD Type	Sigma delta
AD Speed	Max. 60 times/second
Internal Counts	1,000,000
Weighing Unit	kg, g, lb, t,oz,
Calibration Unit	kg, lb
Load Cell Excitation	5VDC
Input Signal Range	0~20mv
Zero Point Signal Range	0~5mv
Load cell Sensitivity	1m v/v~3m v/v
Minimum input	43 ohm
Maximum input	1600 ohm
Operation Temperature	-1 0~ +40 °C
Operation Humidity	<85%
Display	7" TFT LCD
Display resolution	800x480
Display H/V ratio	16:9
Touch Control Mode	Resistance Touch Screen
Communication Interface	1x RS-232; 1x RJ-45; 1xUSB2.0; WIFI
Optional	/
Operating System	Linux
CPU	CORTEX A17
RAM	1GB
Data memory	16GB
Power	Input:100-240VAC,Out put: DC12V/2500mA
Batt er y	7.4V/5200mAh lithium battery (Option)

Model	E7
Housing	ABSPlastic Freesetting
Capacity	7500e;2x7500e;30000d
ExternalResolution	Max-1d Sigmadelta
Tarerange	Max.60times/second
ADType	1,000,000 kg,g,lb,t,oz,
ADSpeed	kg,lb 5VDC 0~20mv
InternalCounts	
WeighingUnit	
CalibrationUnit	
LoadCellExcitation	
InputSignalRange	
Zero Point Signal Range	0~5mv
LoadcellSensitivity	1mv/v~3mv/v
Minimuminput	43ohm
Maximuminput	1600ohm
OperationTemperature	-10~+40°C
OperationHumidity	<85%
Display	7" TFTLCD
Displayresolution	800x480
DisplayH/Vratio	16:9
TouchControlMode	ResistanceTouchScreen
CommunicationInterface	1xRS-232; 1xRS-232 / RS-422 / RS-485; 1xRJ-45; 2xUSB2.0; WIFI
Optional	Secondplatform
OperatingSystem	Linux
CPU	CORTEXA17
RAM	1GB
Datamemory	16GB
Power	Input:100-240VAC,Output:DC12V/4000mA
Battery	Standard

Printing Method:	Thermal printing
Print Width (mm):	48
Paper Width (mm):	58 (+0 / -1)
Paper Roll Diameter	50mm
Print Speed:	90 mm/s
Supported Printing:	1D/2D barcodes, receipts, labels
Print Resolution:	203 dpi
Printhead Lifespan:	50km
Printing Density:	384 dots/line

Model	D10
Housing	ABS Plastic Free setting
Capacity	7500e; 2x7500e; 30000d
External Resolution	Max-1d Sigma delta Max. 60
Tare range	times/second 1,000,000 kg,
AD Type	g, lb, t,oz, kg, lb 5VDC
AD Speed	0~20mv 0~5mv 1m v/v~3m
Internal Counts	v/v 43 ohm 1600 ohm
Weighing Unit	-10~+40°C <85% 10.1" TFT
Calibration Unit	LCD 1280x800 16:9
Load Cell Excitation	Resistance Touch Screen
Input Signal Range	1xRS232; 1xRS232 / RS-422
Zero Point Signal Range	/ RS-485; 2 xUSB2 .0 ;
Load cell Sensitivity	1xRJ45; WIFI; I/O in x 5; I/O
Minimum input	out x 5
Maximum input	Second platform
Operation Temperature	Linux
Operation Humidity	CORTEX A17
Display	1GB
Display resolution	16GB
Display H/V ratio	Input:100-240VAC
Touch Control Mode	N/A
Communication Interface	
Optional	
Operating System	
CPU	
RAM	
Data memory	
Power	
Battery	

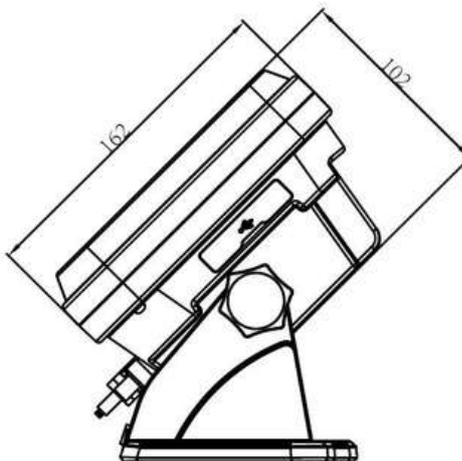
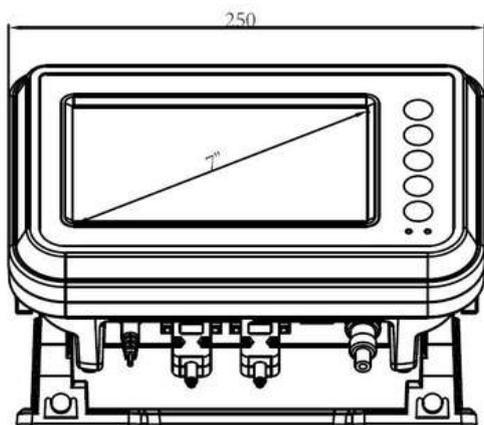
Model	S10
Housing	Stainlesssteel
Capacity	Freesetting
ExternalResolution	7500e;2x7500e;30000d
Tarorange	Max-1d
ADType	Sigmadelta
ADSpeed	Max.60times/second
InternalCounts	1,000,000
WeighingUnit	kg,g,lb,t,oz,
CalibrationUnit	kg,lb
LoadCellExcitation	5VDC
InputSignalRange	0~20mv
ZeroPointSignalRange	0~5mv
LoadcellSensitivity	1mv/v~3mv/v
Minimum input impedance	43 ohm
Maximuminput	1600ohm
OperationTemperature	-10~+40°C
OperationHumidity	<85%
Display	10.1" TFTLCD
Displayresolution	1280x800
DisplayH/Vratio	16:9
TouchControlMode	ResistanceTouchScreen
CommunicationInterface	2xRS232; 1xRS232 / RS-422 / RS-485; 2xUSB2.0; 1xRJ45; WIFI; I/O in x 5; I/O out x 5
Optional	Secondplatform
OperatingSystem	Linux
CPU	CORTEXA17
RAM	1GB
Datamemory	16GB
Power	Input:100-240VAC
Battery	N/A

Model	S15
Housing	Stainlesssteel
Capacity	Freesetting
ExternalResolution	7500e;2x7500e;30000d
Tarorange	Max-1d
ADType	Sigmadelta
ADSpeed	Max.60times/second
InternalCounts	1,000,000
WeighingUnit	kg,g,lb,t,oz,
CalibrationUnit	kg,lb
LoadCellExcitation	5VDC
InputSignalRange	0~20mv
ZeroPointSignalRange	0~5mv
LoadcellSensitivity	1mv/v~3mv/v
Minimum input impedance	43 ohm
Maximuminput	1600ohm
OperationTemperature	-10~+40°C
OperationHumidity	<85%
Display	15.6" TFTLCD
Displayresolution	1366x768
DisplayH/Vratio	16:9
TouchControlMode	ResistanceTouchScreen
CommunicationInterface	2xRS232; 1xRS232 / RS-422 / RS-485; 2xUSB2.0; 1xRJ45; WIFI; I/O in x 5; I/O out x 5
Optional	Secondplatform
OperatingSystem	Linux
CPU	CORTEXA17
RAM	1GB
Datamemory	16GB
Power	Input:100-240VAC
Battery	N/A

7.2 Dimension (mm)

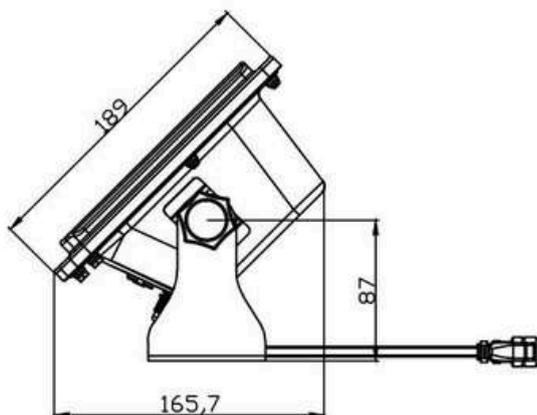
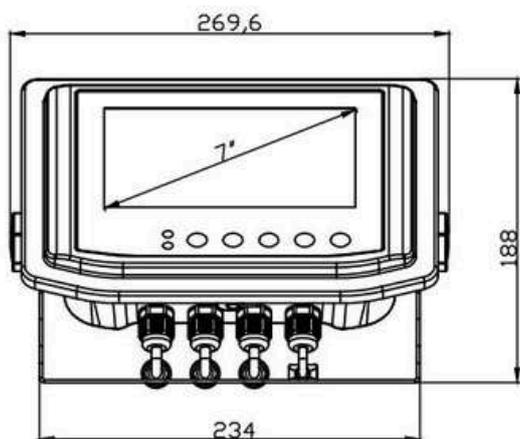
250 (length) x 162 (width) x102 (height)

Model:T7



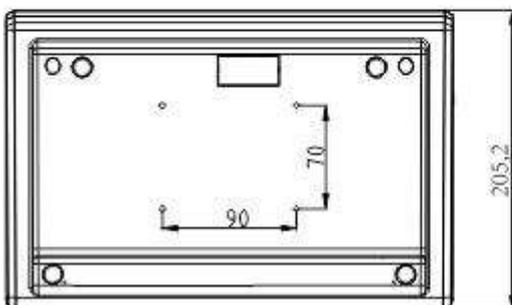
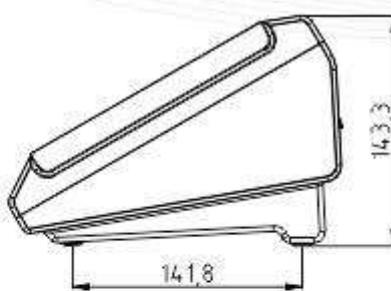
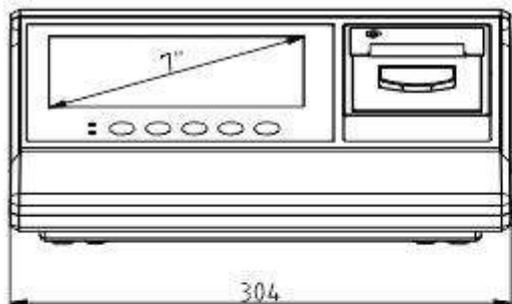
Model:NS7

269.6 (length) x 189 (width) x188 (height)



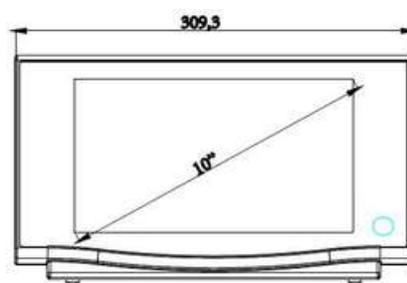
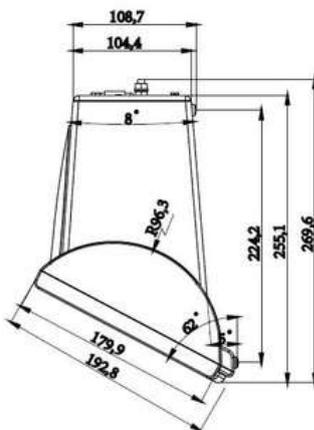
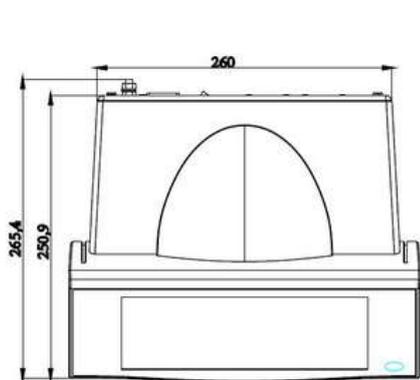
Model:E7

304 (length) x 205 (width) x 143.3 (height)



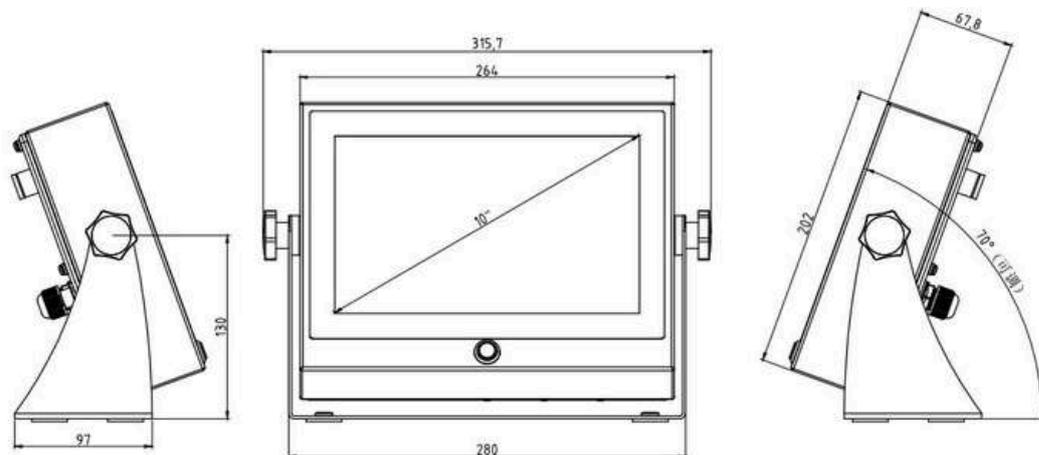
Model:D10

309 (length) x 265 (width) x 108 (height)



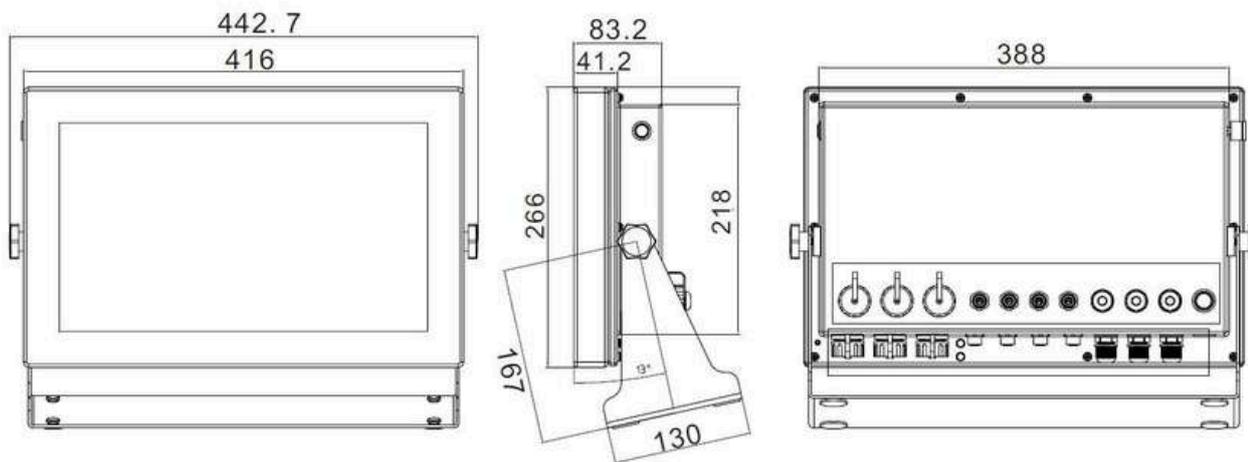
Model:S10

315 (length) x 202 (width) x68 (height)



Model:S15

442 (length) x266 (width) x130 (height)



8.MAINTENANCE

8.1 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.

8.2 Cleaning housing

- 1 To clean device housing ,using a soft, clean cloth dampened with a mild cleaner or detergent and water.
- 2 After cleaning, plug the scale back into the mains and turn it on.

9.TROUBLE SHOTTING

9.1 Trouble shooting

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 Air variation Pan is in contact Sample is moving	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	(animal weighing) Vibrations from table Dramatic Temperature changed Power supply / battery faulty Calibration error, Re calibrate Linearityerror, Linearity calibrated with inaccurate weights Balance not leveled	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	some materials between the sample and cover Wrong weighing unit displayed 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	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, Load cell or mechanics damaged A/D damaged	Verify any objects under the pan or load cell, transporting lock, and verify pan installation. Check the weighing units used.
Not Linear	Adjust mechanism. Overload Stops not correct. Load Cell 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	Mains voltage not present or too low Charging circuit failure Battery Failure	Verify any objects under the pan or load cell, transporting lock, and verify pan installation. Ensure load cell fixed correctly.
Battery will not charge		Check power supply voltage is correct. Verify the batteries are rechargeable types and charging voltage getting proper..
Disconnect AC adapter will turn off power	Battery low	Verify the batteries are rechargeable types and charging voltage getting proper. Plug AC adapter to charge battery. Replace battery

9.2 Error Codes

Error Message	Description	Sol uti on
ERROR 4	Zero setting error	Zero setting range exceeded due to switching on.(4%max) Make sure platform empty.
ERROR 6	A/D value out of range	Make sure platform empty and check the pan is installed proper. Check the load cell connectors.
Sample low	Percentage Error	Please check input data, must be > 0.5d
Unit weight low	Lack of unit weight	Check unit weight entry data, must be >0.1d
Sample low	Lack of sample	Check counting samples entry, must be >20d
ERROR 19	Initialize zeroerror	Calibration the scale.
--UL- -	Under load	Minus weight, check the platform and restart or calibrate.
--OL--	Over range	Remove the load. Re calibrate
	Low battery indicator	Please charge the battery

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Murbay Elektronik A.Ş.

Üçevler Mah.Nilüfer Ticaret Merkezi 56 Sok.No:56 Nilüfer / BURSA

Tel : +90 224 272 10 00

www.murbay.com