CONTENTS

1.0   CAUTIONS AND PREPARATION
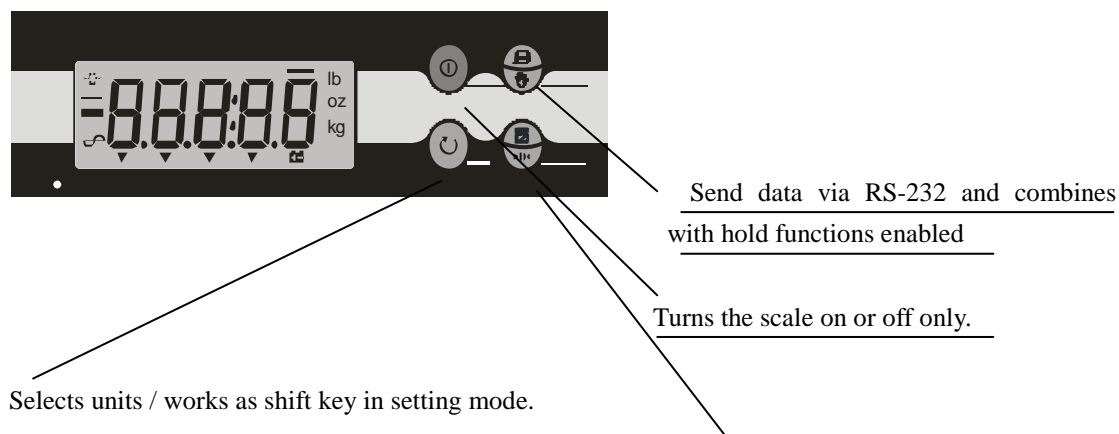
CAUTIONS

1. Please clean the display and operation panel with wet towel instead of   soaking into water.

2. When the value of the scale is not zero, press [Zero], 0 will come.

3. The provided adaptor should be used when charging.

4. It's prohibited to put scale on the location that over temperature and humidity range.

5. Please don't load on the weight over capacity.

PREPARATION

1.   Put the electrical scale on the stable and flat table. Installing the base with indicator and connecting the cables as well.

2.   Avoiding to the disturbance from other equipment, please use socket solely.

3.   Avoid putting the weight on the scale when turning it on.

4.   When weighing, put the load on the center of pan and avoid weighting the objects of over capacity.

5.   Please warm-up scale for 5 minutes.

6.   It's better to calibrate the scale before every using

2.0   DISPLAY AND KEY:

DISPLAY

Send data via RS-232 and combines with hold functions enabled

Turns the scale on or off only.

Selects units / works as shift key in setting mode.

Set the display to trne zero or net zero by storing the current weight in the tare memory

☞ Stable indication

Net: Tare indication

·0· Zero indication

Hold: Holding indication

🔋 Battery is weak

3.0 OPERATION

1. SWITCHING ON THE SCALE

Please place the scale on the table or floor, which must be rigid and not vibrate. And then switch on the scale simply by pressing [ON/OFF] key. The display flashes all digits and symbols before counting down to zero. This ensures all LCD segments are working.

2. ZEROING THE SCALE

Ensure that the zero indicator sign come before every weighing. If it's not, please press the key [Tare/Zero] to set a new zero point.

3. TARING THE SCALE

When want to weight the goods on a container, place an empty container on the platform firstly. A value for its weight will be displayed. Then press the [Tare/Zero] key to tare the scale. The weight of container is stored as the tare value and the value is subtracted from the display, leaving zero on the display. The indicator "ZERO" will be on.

A. When the container is removed a negative value will be shown. Press [Tare/Zero], the display is zero and zero and tare indicator will also be on.

B. Press [Tare/Zero[within zeroing range, the zero value will be shown, the indicator "ZERO" will be on and indicator "TARE" will gone.

4. WEIGHING

When the scale is at Zero, place an item to be weighed on the platform. The display the show the weight. At the moment, please shift the unit kg/lb/oz/lb:oz by [Unit].

4.0 SETTING OPERATION

The scale can be set as desired by the user to control the operation.

1. Switch off the scale.

2. Hold the [Tare/Zero] key and then press the [On/Off] momentarily. Release the [On/Off] key. After 3 seconds,it enters setting mode,selecting the parameters by pressing[Unit].

3. The user can escape from the parameter setting at any time by pressing the [Print/Hold] key.

4.1 AUTO POWER OFF

1.This is used to select the validity of the auto power off function. The display will show "ProFF" or "Pron" DEFAULT SET: ProFF

2. Press [Tare/Zero] key to toggle between "on" and "oFF".

3. If it is set to "on" the power will be turned off after 2 minutes if a key has not been pressed and the scale is at zero. If there is a weight on the scale or the keys have been pressed, the scale will continue to work.

4.2   BACKLIGHT

When it displays "BL X", press [TARE] to set the backlight. Select 1 to turn off the backlight. And select 2 to active the function. And select 3 to set the auto backlight function (this means that when there is no load on the pan, backlight is inactive and when weight is loaded, backlight is active. And the load was moved from the pan, backlight keep on 15 seconds). And then press [Unit] to confirm the selection and turn to next item.

4.3   ENABLING OF UNITS

1. Press the [Unit] key to scroll to the third function "On Kg" which is for setting the units to be enabled and disabled.

2. Each weighing unit can be enabled or disabled so that the enabled units

can be selected during the operation of the scale by the user.

3.Use the [Tare/Zero] key to toggle between on and off and the [Unit] key to move to the next units.Kg is default unit.

4.4   COMMUNICATION ADDRESS

1. Press the [Unit] key to scroll to the fourth function "Add 1" which is   for setting the ID for the scale RS-232 results output.

2. This function is used to set the communication address which is sent via RS232 as an ID code. There are 26 options to select from "Add   1" to "Add   25".   Set "Add 0" for no address.

2. Use the [Tare/Zero] key to scroll through the options.

3. Press the [Unit] key to confirm the selection and move to the next function for setting the Baud rate for sending the data via RS-232 interface.

4.5   SELECTION OF BPS

1. Press the [Unit] key to scroll to the fifth function "BPS" which is for to select the BPS or baud rate per second to set the speed of sending data to RS-232 interface. DEFAULT SET: b   9600

2. There are three options "b   2400", "b   9600" and "b   4800"

3. Use the [Tare/Zero] key to scroll through the options.

4. Press the [Unit] key to confirm the selection and move to the next function for setting the parity for sending the data to RS-232 interface

4.6   SELECTION OF BIT RATE AND PARITY

1. Press the [Unit] key to scroll to the sixth function "Par x" which is used to select the Bit rate and parity used for sending data to RS-232 interface. "PAr x" appears on the screen. DEFAULT SET: PAr 1

2. There are three options "PAr   1", "PAr   2" and "PAr   3".

   PAr   1   - 8 bits no parity

PAr   2   - 7 bits even parity

PAr   3   - 7 bits odd parity

3. Use the [Tare/Zero] key to scroll through the options.

4. Press the [Unit] key to confirm the selection and move to the next function for setting the transmission mode for sending the data to RS-232 interface.

4.7   SELECTION OF TRANSMISSION MODE

1.   Press the [Unit] key to scroll to the seventh function "trn   x" which is used to select the transmission mode. "trn   x" appears on the screen. See the Hold and printing table below. DEFAULT SET: trn   1

2. There are three options "trn   1", "trn   2" and "trn   3".

trn   1   No data output

trn   2   Continuous data output

trn   3   Output when print key is pressed

3. Use the [Tare/Zero] key to scroll through the options

4. Press the [Unit] key to confirm the selection and move to the next function for setting the Hold function.

4.8   SELECTION OF HOLD FUNCTION

1. Press the [Unit] key to scroll to the ninth function "Hod   x" which is used to set the Hold function. "Hod   x" appears on the screen. See the Hold and printing table below. DEFAULT SET: Hod   1

2. There are three options "Hod   1", "Hod   2" and "Hod   3".

Hod   1 No hold function

Hod   2 Automatic hold function

Hod   3 Manual hold function

3. Use the [Tare/Zero] key to scroll through the options.

4. If selection of "Hod   2" or "Hod   3" are made then this will enable function 8.8 SETTING OF HOLD TIME "Hti 0".

5. If "Hod   1" is selected pressing the [Unit] key will take you to the first parameter "ProFF".

4.9   SETTING OF HOLD TIME LIMIT

1. This function is to set the time limit for which the display is held after the hold function is used. It is only available for hold functions 2 and 3.

2. There are four options "Hti 0", to "Hti 4". Hti 1-4 holds the display for the entered number of seconds x10. "Hti 0" holds for an infinite time limit.

3. Use the [Tare/Zero] key to scroll through the options.

4. Press the [Unit] key to confirm the selection and move back to the first parameter or press [Print/Hold] to escape.

	trn = 1	trn = 2	trn = 3
Hod = 1	RS-232 is off. Hold is off. [Print/hold] key has no function	Prints continuously. Hold is off. [Print/hold] key has no function.	RS-232 prints when [Print/Hold] is pressed. Hold function is disabled.
Hod = 2	RS-232 is off. Hold	Print continuously. Hold	RS-232 prints and hold occurs

	occurs automatically when the weight is stable. Hold is released if [Print/Hold] is pressed or time expires as per Hti setting.	occurs automatically when the weight is stable. Hold is released if [Print/Hold] is pressed or time expires as per Hti setting.	automatically when the weight is stable. [Print/Hold] key is pressed print will occur again. Hold is released if key is pressed a second time expires as per Hti setting.
Hod = 3	RS-232 is off Hold occurs when the [Print/Hold] key is pressed. Hold is released if [Print/Hold] is pressed again or time expires as per Hti setting.	Print continuously. Hold occurs when the [Print/Hold] key is pressed Hold is released if [Print/Hold] is pressed again or time expires as per Hti setting.	RS-232 prints and the hold occurs when [Print/Hold] is pressed. If [Print/Hold] is pressed a second time print will occur again. Hold is released if [Print/Hold] is pressed again or time expires as per Hti setting.

5.0 ERROR INFORMATION AND SPECIFICTION

Error Message

1. ⫘⫘⫘⫘   :   overload alarm.

2. 🔋   :   The power is not enough, please charge in time. The too low of voltage will lead to fail on turning on the scale.

Max Capacity	Selectable of 35kg,75kg,150kg, 200kg, 300kg
Pan size	500x500mm; 600x900mm
Division	1/3000
Response	3-5 seconds
Display	LCD with backlight
Unit	kg/lb/oz/lb:oz
Tare	Max capacity
Overload Alarm	Alarm when load is over 9e of max capacity
Overload capacity	Auto-protected when load is over 125% of max
Source	Adaptor--AC 220V/DC 12V 500mA
Consumptions	With backlight:90mA; without backlight 70mA
Temperature	Storage -10℃ +50℃ Work:0℃ +40℃
Humidity	Storage 5% 90% Work:10% 80% R.H.
Net weight	Aluminum indicator: 720g; Pan 500x500mm: 10kg, 600x900mm 20kg

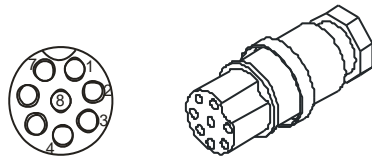**Unit Conversion**

1 kg = 1000g

1 lb = 453.59237g

1 oz = 28.349523125g

6.0   ASSEMBLE   INSTRUCTION
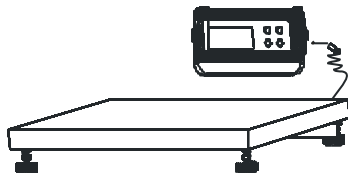
Load Cell connection instruction:

1、S-   2、S+
3、

Installation:

Insert the connector into male plug

7.0   DEALER'S SETTING

Press [power on] key at the same time to holding down the [unit] key to enter dealer setting mode
Choose parameter selection by pressing [unit], press [zero] to select value.

1.   Filter parameter

This function is for filter parameter selection. The display shows "F1 value", the selection range is 1-3.The bigger the value is ,the faster the speed should be. Press [zero] to select and Confirm. Press [unit] to enter zero tracking parameter setting.

2.   Zero tracking

This function is for the selection of zero tracking value. The display shows "ZEO value"
Press [zero] to select 1-8, the bigger the value is, the larger the zero tracking range should be. Press [unit] to enter stable range setting after confirming.

3.   Stable range

This function is for stable range setting. The display shows "STA value". Press [zero] to select 1-8, the bigger the value is, the faster the stable speed should be. Press [unit] to enter the setting of stable tracking.

4.   Stable tracking

This function is for setting stable tracking value. The display shows "STR value".Press [zero] To select 1-5.The bigger the value is, the bigger the stable tracking should be. Press [unit] to Enter over load record setting after confirming.

5.   Over load record

This function is for over load record. The display shows "PI", in consideration of security, Please through password verification first. Press [hold]-[zero]-[unit]-[unit] to enter over load

record. The display shows "OL-value", the value is time of over load. The time of over load will add one when the weight is over the 15% of the capacity. Press [zero] to cancel the over load record. Press [unit] to enter capacity setting.

6. Capacity setting

    This function is for the selection of capacity. The display shows "C value". Press [zero] to Select 30kg,60kg,75kg,100kg,150kg,300kg,500kg,750kg,1000kg,2000kg,3000kg.Press [hold] to confirm and enter resolution setting.

7. Resolution setting   (optional)

    This function is for the selection of resolution. The display shows "D value". The resolution is adjustable, but for different capacity, the default adjust range of resolution is different also. Press [zero] to set the resolution. Press [unit] to confirm and enter calibration weight setting.

8. Calibration weight.

    This function is for calibration weight. The display shows "L 000". Press [zero] to select value. Press [hold] to switch the location of cursor, press [zero] to change value, press [unit] to show AD value after confirming and then press [unit]. Put on the corresponding sample weight when the display shows "LOAD". Press [unit] to finish the demarcating and enter the weight mode.