

**EPS Series
Price Computing Scale**

User Manual

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SECTION 1

INTRODUCTION

1. 1 FEATURES

- Large LCD display
- AC / Rechargeable battery
- Selectable weighing unit
- Accumulate operation
- Account function, do memory recall, give change and memory clear one time
- Selectable reading resolution
- Auto backlight

1. 2 SPECIFICATIONS

Model	Capacity	Division
EPS-6	6 kg	1g / 2g
EPS-15	15 kg	2g / 5g
ESP-30	30 kg	5g / 10g

SECTION 2

KEY DESCRIPTION


Each of the keys are shown and described for you.

ZERO	The ZERO key zeroes the scale.
TARE	The TARE key subtracts tare values and changes the EPS from gross mode (no tare) to net mode.
SAVE	The SAVE key used to disable or enable the price and tare auto-clear Function
B/L	The B/L key used to set the backlight mode (ON/OFF/AUTO)
ACCOUNT	The ACCOUNT key is used to do memory recall, give change and memory clear in one time
M+	The M+ key adds data to the accumulators.
UNIT	The UNIT key is used change unit.
PLU	The PLU key used to store unit price memory and recall unit price from memory
C	The C key is used for canceling the memorized data.
0~9	The NUMERIC key (0~9) is used for setting unit price data.
•	DECIMAL POINT key is used for set the decimal position of unit price

SECTION 3

OPERATION

3.1 GENERAL INSTRUCTION

1. When battery goes low, the  light will be turned on automatically. It is the time to charge the battery with the AC power. If **EPS** goes on being used without proper charging, the display window will show "BAT LO" every 10 minutes, and **EPS** would be shut down automatically after 50 minutes of warning in order to protect the battery. Please charge the battery immediately, or **EPS** cannot be used.
2. The display window will show color of orange when battery is being charged, and it will turn to color green when battery is fully charged.
3. Before starting using **EPS**, please check if the bubble is in the middle of the level ; if not, please make appropriate adjustment.

3.2 BASIC OPERATION

3.2.1 Zero the scale

When there is no item on the scale but reading is not zero, press the key to turn on **ZERO** indicator. When the weight goes over 20 % of the full capacity, "read zero" function is obsolete.

3.2.2 Tare

Put container on the platter, once the weight reading is stable, press the key, the **TARE** indicator will be on and the container's weight will be deducted. When it is time to clear the **TARE**, take off the container, and press key again.

3.2.3 Overload Warning

Please do not add item that is over the maximum capacity. When reading "—OL—" and hear beeping sound, remove the item on the platter to avoid damage to the load cell.

3.2.4 Unit price setting

To trade with your **EPS** scale, it is necessary to setting a unit price of the goods, EPS then uses this unit price to determine how much that goods are on the platter.

When **EPS** scale displaying the weight of the goods placed on the scale, set the unit price through numeric keys. Set unit price is showed in **UNIT PRICE** window display, **TOTAL PRICE** window display shows the total price of the goods. To cancel the previous unit price, press **CANCEL** key .

3.2.5 Change unit

You can use the **UNIT** key to change unit. Press **UNIT** key will change the weighing unit circularly, and the pertinent indicator will on.

3.3 ACCUMULATOR OPERATION

3.3.1 Prepare to accumulate

Each time before accumulate, please make sure the platter is empty, the current accumulator values is reset to zero, and the weight reading is stable.

3.3.2 Accumulative operation

Put the weighing item on platter, wait for the weight reading to be stable, press the **M+** key, the window will show **ACC n**, n being the number of times a count operation had been performed.

3.3.3 Account operation

After do accumulate operate, you can press Account key, **WEIGHT** window will show the summed price, key in paid money by keyboard, this will show on Unit Price window, and the Total Price window will show the return value.

Press Tare key to return normal weighing mode and clear memory, if you don't want clear memory, press Zero key to return normal weighing mode.

Note: if you haven't do accumulate operation, you also can use Accountfunction, the summed price is current total price.

3.4 UNIT PRICE MEMORY

EPS can store 10 sets unit price.

3.4.1 Save the unit price

Hold the **PLU** key for 3 seconds after you key in the unit price, it will show "PS 0~9" , press numeric key 0~9 to select which memory location you want to use.

After you do, the unit price is stored in the **EPS**.

3.4.2 Load the unit price

If you want to use the unit price stored in the **EPS**, press **PLU** key, **EPS** will shows "**PL 0~9**", press numeric key 0~9 to select which memory location's price you want to use, current unit price will change to the value stored in the memory.

3. 5 Other function

3.5.1 Backlight

EPS have three backlight mode: on, off and auto.

ON: backlight will turn on however current weight is zero or not Zero

OFF: backlight will turn off however current weight is zero or not zero

AUTO: backlight will turn on when current weight is not zero and it will turn off if current weight is zero

You can press B/L key to set backlight mode, display will show current backlight mode, press SAVE key to select backlight mode (ON/OFF/AUTO), after you select, press TARE key to sure.

3.5.2 Automatic unit price clear

EPS can set automatic unit price clear, when return to zero, EPS will clear the unit price automatically.

Press SAVE key will turn on / off automatic unit price clear function, when SAVE indicator on, automatic unit price clear disable, when SAVE indicator off, automatic unit price clear enable.

3.5.3 Auto power off

EPS scale have auto shut off function, you can set this parameter. Press **ACCOUNT** key during self-checking, display shows "sleep mode", press Speed 4 key to select 0/1/5/30 (not use auto power off / turn off power after scale leisure for 1 minutes / turn off power after scale leisure for 5 minutes / turn off power after scale leisure for 30 minutes), press Tare key to sure

3.5.4 View audit operate

Press SAVE key during self-checking, display shows AUDIT OPT AA CAL BB, press ZERO key to escape.

SECTION 4

SETTING OF PARAMETERS

4. 1 ENTER SETTING MODE

To set the parameters it is necessary to enter a secure menu. This is done by entering a password number when requested.

To enter the parameter menus press the **TARE** key during the initial counting of the display after power turned on. The Weight Display will show "P n " requesting the password number to be entered.

Press the "O" key four times. The display will show "Pn- - - -", Press the **TARE** key. The Parameter menu has 18 functions that can be accessed using the PLU key to cycle through the choices. The Weight Display will show the name of the functions.

Also you can press 0 to select F0, and key 2 to select F2..... To enter a function press the **TARE** key. At any time press the **ZERO** key to return to weighing.

4. 2 PARAMETER SETTING TABLE

Weight Display	Description
F0 CAL	When the parameter menu show "F0" press the TARE key. The display will then show "unLoAd" to request all weight be removed from the platform. After STABLE indicator on, press the TARE key to set the zero point. The display will then show the calibration weight requested, press the TARE key to accept it. The display will show "LOAd". place the calibration weight on the scale. After STABLE indicator on, press the TARE key. The scale will calibrate.
F1 RES	Set external resolution, press SAVE key to change (3000/60000/dual range), press ZERO key to sure.
F2 UNIT	Set weighing unit, press SAVE key to change (KILOS/POUNDS/HJ/HL/100), press ZERO key to sure.
F3 CAPA	Set capacity, Press SAVE key to select, press ZERO key to sure..
F4 POINT	Set weighing decimal point, press SAVE key to select, press ZERO key to sure.
F5 POINT	Set price decimal point, press SAVE key to select, press ZERO key to sure.

F6 INIT ZERO	Set initialization zero range (auto zero range), press SAVE key to select, press ZERO key to sure.
F7 RE ZERO	Set re zero range (manual zero range), press SAVE key to select, press ZERO key to sure.
F8 SCSIUUE TARE	Set whether use re tare function, if this parameter is on, you can do tare operation continuously, if this parameter is off, you only can do tare operation one time, press ZERO key to select, press ZERO key to sure.
F9 A-D COUNTS	Displays the A/D counts.

SECTION 5

RS-232 OUTPUT

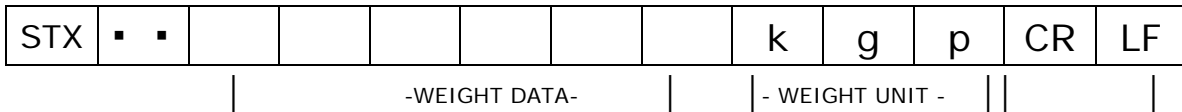
APPENDIX

The EPS Series of scales can be ordered with an optional RS-232 output.

Specifications :
 RS-232 output of weighing data
 ASCII code
 8 data bits
 No Parity

Connector : 25 pin d-subminiature socket
 Pin 2: Output
 Pin 3: Input, not used at this time
 Pin 7: Signal Ground

Data format: ASCII code, 10 bits per frame data, bit 1: start bit, bit2~bit8: data bits, bit 9: verify bit (even)



p= 01x1x2x3x4x5x6.

Stable : x6=1, unstable: x6=0.
 Over : x5=1, ontherwise: x5=0.
 Negative : x4=1, pluse: x4=0;
 Zero : x3=1, ontherwise: x3=0;
 Net Zero : x2=1, ontherwise: x2=0;
 Tare : x1=1; ontherwise: x1=0;

Baud rate: 9600bps

ERROR CODES

Error Codes	Meaning
ERR 4	Current weight exceed set zero limit, thus cannot reset to zero
ERR 5	Keyboard error
ERR 6	Load cell not connected or Load cell damaged

“**ENDEL**” is an internationally reputed brand name in Electronic Weighing Instruments since last 11 years.

Our products are produced in India & Taiwan and supplied & serviced from our India, UAE and Kenya hubs; distributed through a world wide dealer network.

All “**ENDEL**” products are carrying advanced technology, designed by our R & D experts for specific commercial & non-commercial use in Laboratory, Medical, Business and Industrial environments.

Brief summary of “**ENDEL**” product range is...

- Laboratory Balances
- Jewelry Balances
- Pocket Scales
- Gem Scales (Carat Scales)
- Table Top Scales / Super Market Scales
 - Simple Weighing Scales
 - Price Computing Scales
 - Piece Counting Scales
 - Wash Proof/ Water Proof Scales
- Platform Scales
- Deck Scales
- Pallet scales
- Crane Scales
- Hanging (fishing) Scales
- Postal / Parcel Scales
- Bathroom Scales
- Kitchen Scales
- Baby Weighing Scales
- Truck Weighing Scales (Weighbridges)
- Weighing Indicators
- Load Cells
- Accessories
- Customized auto weighing systems

“**ENDEL**” operates on approved quality management system and is certified to ISO 9001 : 2000

Visit our web : <http://www.endeavourweigh.com> for more details

CONTACT for any further assistance



PARAG TRADING CO., LLC

22, Bin Sabt Bldg., P-II Al musalla, P.O. Box # 51687, Bur-Dubai, DUBAI, U A E

Phone : +971-4-3522077 ☐ Fax : +971-4-3522088

Email : paragtrd@emirates.net.ae

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