

**USER MANUAL**

EE40001

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1. **Notice**
	1. Please charge before first use.

When low power sign shows, please use the original adapter to charge. Charge light is red, it means scale is in charging mode. When charge light turn to green, it means charging finished. The charging time is about 8-10 hours.

* 1. Put and balance the electrical scale on the stable and flat table with four adjustable feet. Please notice the air bubble should be kept in the center of circle.
	2. Please avoid the water.
	3. When the value of the scale is not zero, press “Zero”, zero will come.
	4. If mobile or wireless machines are in use nearby when turning on the scale, the display will flash once, and then become normal. If it doesn't work, please turn on again.
	5. The original adaptor should be used when charging.
	6. After a long-time use (more than one year), the rechargeable battery can't keep using for long after more than 12-hour charging, which means new one should be replaced. If you have no idea how to replace, please ask a nearby agency to give you a helping hand.
	7. Please turn off the scale when it won't be used for a long time.
	8. Avoid putting the weight on the scale when turning it on.
1. **Specification**
	1. Big size LCD/LED display, easy to read.
	2. More backlight setting to fit the requirements.(LCD)
	3. More brightness setting to fit the requirements.(LED)
	4. Solid frame design to insure the stable weighing.
	5. With data memory, can store many weighting date.
	6. Fast reading, stable, accurate, easy using.
	7. Low power alarm, charging light show.
	8. Simple counting function.
	9. Animal weighing function(Option)
	10. Weight accumulation function
2. **Main parameter**
	1. Division: 1/30000
	2. Adapter: Built-in or outside AC 12V/500mA.
	3. Power:50mA(LCD)/150mA(LED)
	4. Display: LCD/LED display
	5. Load cell range: 3mV/V
	6. Adaptor:DC6V/4.5AH(when battery voltage less than5.6V,it will show the sign of low power)
	7. Temperature&Humidity:0-40℃, lessthan90%RH
	8. Storage: -25~55℃
3. **Display**

**LED**



**LCD**



* 1. Units area shows unit on the display .( LCD version with Units design)
	2. [◄]-----To choose, indication of Units.
	3. Zero----Weight value is 0.
	4. Tare-----Used as tare key in pricing mode
	5. Stable----Weight value is stable.
	6. Lo-bat---When battery power lower than 5.6V, it will show.
1. **Fix up**
	1. The connection



|  |  |  |
| --- | --- | --- |
| PIN | definition | note |
| 1 | E+ |  |
| 2 | E- |  |
| 3 | S+ |  |
| 4 | S- |  |
| 5 | Ground | Connect to the shield wire |

* 1. How to fix

Put the cable through the pillar, then insert the pillar into base, fasten the fixed screw. After put the cable through the holder. Insert the holder into the bracket of the indicator. Fix the load cell connector. Adjust the holder for right position, and then fasten the plastic screw on the display.

1. **Charging**

When charging, the light is red. It will turn green when charging finished (the charging time should be 8-10h).

Attention: do not use up the battery, otherwise the battery will be broken. If user do not use it for a long time, should recharge in 40 days.

After charge, please take off the power supply, do not always connect to power supply.

1. **Operation**





* 1. [UNITS] Select the units.
	2. [ZERO] Let the weight display's value back to zero.
	3. [TARE] Put on the tare weight, then press this key to deduct the tare weight.
	4. [Alarm] Press and hold for 3s to enter the Hi/Lo setting. Press shortly to print.
	5. [Mode]长按进入用户参数设置,在计数单位下短按进行采样.
1. **Zero**

When here’s no weights on the pan, user press [Zero], weighing value will back to zero. If the scale damaged or weighs heavy than allowed zero range, [Zero] key is invalid. If the pan is empty and display still have residual value, please use zero function. The range of zero= Max. Cap.\*4%.

1. **Tare**

Put the container on the pan, press [Tare] key, after the scale is stable, net weight will show in the weight window and tare sign will appear.

1. **Units**
	1. Unit in use

Some of the LCD version have units show (sign or letter) on the right side of the LCD weight.

LED version use LED light to indicate the unit which print on the panel. For an example, the light of kg is light up, the unit in use is kg.

* 1. If the unit is not the user want one, press [UNITS] key to change. The unit in use will store after power off the scale.
	2. If user can not find the unit which want to use, press follow the 16 parameter setting "P1 UNT".
1. **Simple counting function**
	1. Make sure that the units setting with “PCS” unit open.
	2. Under weighting mode, press [UNITS] key to shift the unit to be “PCS”.(if no unit weight setting before, the screen will display “0”).
	3. Put the sample on weighting pan.
	4. Press [MODE] key, the screen displays “N-XXX”,(“XXX” stand for sample quantity.)
	5. Press [UNITS] key to shift the flashing digits which should be set.
	6. Press [TARE] key or [ZERO] key to amend the value.
	7. Press [Mode] key to finish sampling.
	8. After sampling then enter into counting mode, the display will show the quantity. Put the weight, the scale will count out the quantity.
	9. In counting mode, press [MODE] key to sampling again, press [UNITS] to back to weighting mode.
2. **Alarm**

In weighing mode, press [MODE], then enter into the alarm setting. The details as follows:

|  |  |  |
| --- | --- | --- |
| Display  | Function | Adjust way |
| －H－L－ | Hi/Lo mode.H is the high limit of the follow settings.L is the low limit if the follow settings.Which “-“twinkles, it means when weighing value is in this area, the beep works.For an example, the far left “-“twinkles, it means when weighing value is more than high limit, the beep works.When every “-“all do not twinkle, it means the alarm function is off. | Press [UNITS] key to modify. Press [Alarm] to enter the next parameter setting. |
| HXXXXX | This parameter is high limit value. | Press [UNITS] key to modify the twinkle digit. Press [TARE] and [ZERO] key to modify the number of twinkle digit. After setting, press [Alarm] to enter the next parameter setting.  |
| LXXXXX | This parameter is low limit value. | Press [UNITS] key to modify the twinkle digit. Press [TARE] and [ZERO] key to modify the number of twinkle digit. After setting, press [Alarm] to back to the weighing mode.  |

1. **Simple calibration**

In weighing mode, remove the weights from the pan. Press and hold [Tare] key for 3s, the display shows －CAL－, then it shows the weight. At this time, modify the weight value to the calibration weights value, then put on the calibration weights, wait for 3s, and press [Alarm] or [Mode] key to calibrate.

**Note: In simple calibration, if the calibration result is twice more or half less than agency calibration, the simple calibration cannot pass. For an example, put on a 10kg weights, in agency calibration set to 10kg and passed. When calibrate in simple mode, use 10 kg weights, but set to 20kg or 5kg, simple calibration cannot pass.**

1. **Parameters setting and function.**

In weighing mode, press [Mode] key and hold 3s, the scale will enter into setting mode. The display will show “P1 UNT”, this is units setting. Now, press [Mode] key to enter the next major setting.

|  |  |  |  |
| --- | --- | --- | --- |
| MAIN PARAMETER | SUBPARAMETER  | FUNCTION | SETTING WAY |
| P1 UNT(UNITS) | U1 XXX | **Units print on the panel**U1 XXX It means the units when arrow point to the first units on the panel.XXX is the units’ name. For a sample,”U1 kg”, it means when arrow point to the first unit of the panel, the unit is kg.“U2 g ” it means when arrow point to the second unit of the panel, the unit is g. | Press [Units] to modify the units.Press [Alarm] to enter the next unit setting. |
| U2 XXX |
| U3 XXX |
| U4 XXX |
| Kg XXX | **Units show on the LCD display.**Setting useful unit. XXX can set to ON or OFF, all units set to ON can be used.  | Press [Units] to set the unit open or close. Press [Alarm] to enter the next unit setting. |
| P2 TRA(communication settings) | FC Xor XX Mod | Communication mode:1 Continue sending mode.2 Stable sending mode.3 Answer sending mode.4 Manual sending mode.5 Stable sending mode.6 Manual sending mode.**5 and 6 effective when connect with printer** | Press [Units] modify the parameter.Press [Alarm] to enter the next parameter setting.  |
| PF X or X PFM | Protocol setting. The default set is 0, contact us when need.  | The same as above. |
| Add XX or XX Add | Communicate address, use for multi PC communication. | The same as above. |
| b XXXX or XXXX bps | XXXX is communicate baud rate. | The same as above. |
| X X X | This parameter can set to n 8 1, o 7 1 and e 7 1. They are respectively check bit, data bit, stop bit settings. | The same as above. |
| CC XXX or XX CHK | Open or close XOR checkout. | The same as above. |
|  | F2 or X M2 | The communicate mode setting of Serial port 2. The same set way as FC. | This function for built-in printer or double serial port. |
| P2 or X PF2 | The protocol setting of serial port 2. The same set way as PF. |
| P3 FUN(Other function settings) | Pr XXXor XXX Pwr | Sleep mode parameter setting. This parameter can set to OFF( close sleep mode), also can set to 6-60s sleep by every 6s one step. In LCD display version, it controls the sleep mode of the backlight. | Press [Units] to modify the parameter.Press [Alarm] to enter the next parameter setting.  |
| LtN X | X is the brightness of LED digits. (LED version) | The same as above. |
| XX BKL | XX can set to ON or OFF, to control the backlight.(LCD version) | The same as above. |
| Hd XXdorXXd Hd | Dynamic weighing setting. Set to “OFF” to close this function. if it set to “ON”, user can set 10 d~ 70 d dynamic weighing range by every 10d one step.such as: set to 20d,when weight moves in 20d range, the software will calculate a suited average value, then lock, the same time a long beep come out. If weight exceed this range, it will be unlocked automatically，and with a short beep. ----d, it means weigh must return to 0, then the weight can be unlocked, but the weight move should not exceed 80d. | The same as above. |
| MLE XX | XX can set to ON or OFF. It controls the Hi/Lo alarm when weight value is negative. | The same as above. |
| ZPE XX |  XX can set to ON or OFF, It controls the Hi/Lo alarm when weight value is zero. | The same as above. |
| MAM XXX | XX can set to ATO or MAN, It controls the ADD function is automatic mode or manual mode. When in manual mode, press [M+] key can enter into ADD function. When in automatic mode, put on the weight, after the weight stable, scale will add the weight automatically. (This function is for scale which has ADD function.) | The same as above. |
| SST XX | Whether or not show the time information in sleep mode. | (This function is for scale which has built-in clock module.) |
| XX.XX.XX | Set date information. Format is year/month/date. Use [Units] key to switch year/month/date, use [Zero] and [Tare] to modify the numbers.  |
| T XX.XX | Time information. Format is hour/minute. Use [Units] key to switch hour/minute, use [Zero] and [Tare] to modify the numbers. After minute data set, press [Units] again can store the time information.  |

1. **Communication**
	1. Connection

Female socket (default)

|  |  |
| --- | --- |
| Indicator(Male) | PC(Female) |
| Feet | Define | Feet | Define |
| 2 | TXD | 2 | RXD |
| 3 | RXD | 3 | TXD |
| 5 | GND | 5 | GND |

Male socket (default)

|  |  |
| --- | --- |
| Indicator (Female) | PC(Female) |
| Feet | Define | Feet | Define |
| 2 | RXD | 3 | TXD |
| 3 | TXD | 2 | RXD |
| 5 | GND | 5 | GND |

* 1. Data format

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S | T | , | N | T | , |  | 1 | 2 | 3 | 4 | . | 5 | 6 |  | k | g | CR | LF |
| Header1 | Header2 | Data(8 digits in length) | Units | 0D | 0A |

|  |  |
| --- | --- |
| Header1 | Header2 |
| ST, | STABLE | NT, | Net Weight |
| US, | UNSTABLE | GS, | Gross Weight |
| OV, | Over load | TR, | Tare Weight |

Weighing value use ASCII, may have follow fonts.

“0”-“9” numbers “ ” blank character “ . ”Decimal point “ - ” Minus sign

1. **Units conversion table**

1 kg = 1000g

1 lb = 453.59237g

1 oz = 28.349523125g

1. **Error message**

|  |  |  |
| --- | --- | --- |
| Message | Problem | Solve way |
| ADO--- | Over A/D resolution range | Remove the weights of the pan or send back to the agent. |
| ADL--- | Over A/D resolution range  | Remove the weights of the pan or send back to the agent. |
| OVR--- | Over load (max: capacity +9e) | Check the weight of the weights, cannot exceed Max Cap.+9e |
| ERR-Z | AD value exceed the power on zero range when power on | Power on again after remove the weights or re-calibrate |
| Battery symbol flash  |  Low power alarm | Charge battery |
| Lo-Bat | Low power alarm | Charge battery |