



318513 Operation Manual

Contents subject to change without notice

Version 1.0

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1. INTRODUCTION and INSTALLATION

General and Safety Information



- Risk of Electrical Shock: Disconnect all power sources before making cable connections to the scale platform or indicator.
- For use in dry environments only.
- Do not operate in hazardous areas.
- Read and understand all operating instructions before using this product. Keep this manual for future reference.
- Record the weight shortly after placing a load on the platform. After extended periods, the load cell's output signal-may result in a less accurate reading.
- Place the scale on a hard, flat, and level surface before using.
- Avoid extended exposure to extreme heat or cold. Optimum operation is at normal room temperature. See operating temperature range in the specifications table. Allow the scale to acclimate to room temperature before using.
- Allow sufficient warm up time. Turn the scale on and allow up to 2 minutes for internal components to stabilize before weighing.
- Electronic scales are precision instruments. Do not operate near cell phones, radios, computers or other electronic devices that emit radio frequencies that may cause unstable readings.
- Avoid using in heavy vibration or heavy airflow conditions.

Specifications

Model	318513	
Max Capacity	400lb (182kg)	
Readability	0.5lb (0.2kg)	
Display Resolution	1:800	
Construction	Epoxy painted carbon steel, treaded surface	
Weighing Units	lb / kg	
Calibration unit	lb / kg	
Application Modes	Weighing	
Display	0.625" (16mm) 7-segment LCD, 5 1/2 digits	
Zero Range	±20% of full capacity	
Tare Range	Full capacity	
Stabilization Time	<3 seconds	
Operating Temp.	40° to 105°F (5° to 40°C)	
Humidity Range	<90% relative humidity, non-condensing	
Power supply:	Batteries: 4 x "AAA" size cells (not included)	
rower suppry.	AC Adapter: 9Vdc/600mA, with central positive	
Interface	RS232, USB	
Safe Max Overload	150% of capacity	

Contents

Scale & Indicator

Owner's Manual

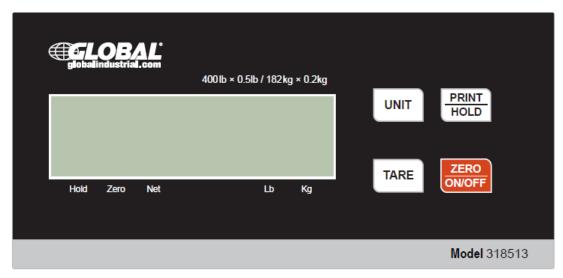
AC120V/DC9V 600mA Adapter

2. OVERVIEW OF CONTROLS AND FUNCTIONS

Indicator Display Character Definitions

ASCII	LCD/LED Show	ASCII	LCD/LED Show	ASCII	LCD/LED Show
0	B .	Α	B .	N	B .
1	8.	В	8.	0	5 .
2	8.	С	B .	Р	8.
3	<i>B</i> .	D	8.	Q	8.
4	B .	Е	8.	R	8.
5	8.	F	8.	S	8.
6	8.	G	B .	Т	8.
7	8.	Н	8.	U	8.
8	8.	I	8.	V	5.
9	8.	J	8.	W	8.
		К	8.	Х	B_{\cdot}
		L	8.	Y	8.
		М	8.	Z	8.

Indicator Display



- Zero- Scale is zeroed and gross weight is 0, tare is 0.
- Net Display reading is net weight; tare is not 0.
- Lb, Kg Unit of measure.
- Hold Scale is in dynamic weighing mode.
 - Hold flashes actual fluctuating weight is displayed.
 - Hold does not flash locked weight is displayed.

Function Keys

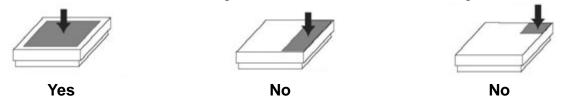
KEY	MODE		DEFINITION
	Weighing	<3 seconds	Send output data via the USB or RS232 port
PRINT	mode	>3 seconds	Enter or exit HOLD mode
THOES !	Setup or C	alibration mode	Shift the flashing data entry position from right to left
	Weig	hing mode	Select weight unit of measure
UNIT	Setup or C	up or Calibration mode Increase the digit in the flast data entry position by 1	
	Weig	hing mode	Tare the weight
TARE	Setup or Calibration mode		Confirm the input data and continue to next step
	Weighing	<3 seconds	Zero the platform weight
ON/zero OFF	mode	>3 seconds	Power off the scale
	Setup or Calibration mode		Exit to normal weighing mode
ON/zero OFF + UNIT	Weighing mode (more than 3 seconds)		Enter USER parameter setup mode
ON/zero OFF + TARE	Weighing mode (more than 3 seconds)		Enter calibration mode

3. OPERATIONS

Normal Weighing Mode

- 1. Power on the scale by pressing the **ZERO/ON/OFF** key.
- 2. When the display stabilizes, but it doesn't show zero, press **ZERO/ON/OFF** to set a new zero point.
- 3. Place objects on the scale platform and read the weight on the indicator.

Note: Objects should be placed at the center of the platform. Corner or side loading heavy objects may risk overloading an individual load cell and damage the scale.



- 4. To change the weight unit of measure, press the **UNIT** key.
- 5. To send data to another device via the serial port, press the **PRINT/HOLD** key.
- 6. To hold the weight data, press and hold the **PRINT/HOLD** key for 4 seconds.
- 7. Power off the scale by pressing and holding the **ZERO/ON/OFF** key for 4 seconds.

ZERO

If the display dose not shows 0, and there is nothing on the platter, press the **ZERO/ON/OFF** key to zero the reading.

Zero range: ±20% * full Capacity.

The zero function is unavailable when the displayed reading is out of the zero range and the indicator will show the error message **0** or **0**, meaning the scale is over or under zero range.

Setting a Tare Weight

- 1. Zero the scale as described above.
- 2. Place an empty container on the platform, press the **TARE** key. The display will return to zero, eliminating the weight of the container. The **NET** announciator will be lit on the display.
- 3. Put the material or object to be weighed in the container. The net weight will be displayed.
- 4. To exit tare mode, remove all weight from the scale. The display will show a negative weight. Press the **TARE** key to return the display to zero.

4. Calibration

Note:

- (1) Before calibrating the scale, you should prepare standard weights (more than 10% of FS weight) for calibration.
- (2) In the following steps, pressing **ZERO/ON/OFF** will exit calibration.
- 1. Move all weight from the scale. Under normal weighing mode, press and hold **TARE** and **ZERO/ON/OFF** keys for more than 4s to enter calibration mode.
- 2. The indicator will show "CAL.PO", the scale will begin to calibrate the zero-point of the scale. Remove all weight from the scale. Press the TARE key to confirm, or press the ZERO/ON/OFF to exit this mode. After receiving the reasonable zero-point data, the next step will automatically occur.
- 3. When "CAL.P1" is displayed, the scale will be calibrated on second calibration point. xxxxxx kg (or lb) will be displayed. The default standard weight is 50%FS. Load 5%-100%FS weight on the scale, and use the HOLD or UNIT keys to input the loaded weight. Press the TARE key to confirm the input, and then the indicator will flash the input standard weight. After the scale becomes stable it will automatically be directed to next step. If the second point cannot be calibrated correctly, it will display "CAL.Er" and return back to step2 for re-calibration.
- 4. When "CAL.P2" is displayed, the scale will be calibrated on third calibration point. xxxxxx kg (or lb) will be displayed. The default standard weight is 100% FS. Load 10%-100%FS (this must be equal or larger than the weight from the second calibration point) weight on the scale. Use the HOLD or UNIT keys to input the standard weight's value. Press the TARE key to confirm. The indicator will flash the input weight. If the indicator receives reasonable data, it will go to next step automatically. If an error occurred, the scale will display "CAL.Er" and return back to step2 for re-calibration.
- 5. When "CAL.PO" is shown again, the scale will calibrate the zero-point again. Remove any weight from the scale, press the TARE key to confirm; the displayed data will flash. If the indicator receives reasonable data, it will calculate and store all parameters into EEPROM. Then it will auto-reset, and be directed to weighing mode. If an error occurred in calibration, the scale will display "CAL.Er" and then it necessary to repeat the procedure from step2.

5. Configuration Parameters Setup

- 1. When the scale is off, press and hold **ZERO/ON/OFF** and **PRINT/HOLD** keys until 'CONF' is shown, which indicates that the scale is in Configuration parameter setup mode.
- 2. During setup mode, press the **UNIT** key to change the flashed digits, and use the **HOLD/PRINT** key to shift the flashed position. Press the **TARE** key to confirm the flashed digits. Press the **ZERO/ON/OFF** key to exit this mode.
- 3. Summary of Configuration Parameters Setting:

Para- meter	Option	Remark	setting
C1	100 - 20000	Display Resolution for main weight unit: 100–20000	800
C2	100 - 25000	Display Resolution for second weight unit (if main unit is kg or lb, then second unit is lb or kg): 100–25000 Note: it must be equal or less than 1.25×C1	910
C3	0, 1, 2	Division select: $0 - 1$; $1 - 2$; $2 - 5$;	2
C4	0 - 5	Decimal point: 0 - x1 ;	1
C 5	0, 1	Main weight unit (Calibration and setting capacity weight units): 0 - kg ; 1 - lb	1
C6	0, 1, 2	Weight Units that can be chosen by UNIT key: 0-kg; 1-lb; 2-kg/lb	2
C 7	Power-on zero-point range: 0 - calibration zero -point ±1%FS; 1 - calibration zero -point ±2%FS; 2 - calibration zero -point ±3%FS; 3 - calibration zero -point ±4%FS;		9

C8	0 - 9	Zero range for ZERO/ON/OFF button: 0 –power-on zero -point ±1%FS; 1 - power-on zero –point ±2%FS; 2 - power-on zero –point ±3%FS; 3 - power-on zero –point ±4%FS; 4 - power-on zero –point ±5%FS; 5 - power-on zero –point ±10%FS; 6 - power-on zero –point ±20%FS; 7 - power-on zero –point ±50%FS; 8 - power-on zero –point ±100%FS; 9 - no limitation;	6
C9	0, 1, 2	Select which zero point will be used after scale is powered on and current weight signal is within the power-on zero-point range: 0 - Current weight; 1 - Calibration zero point; 2 - Power-off zero-point (power-off tare weight as current tare weight).	0
C10	0 - 3	Select which zero point will be used after scale is powered on and current weight signal is NOT within the power-on zero-point range: 0 - Prompt power on zero point is over range: 1 - Current weight; 2 - Calibration zero point; 3 - Power-off zero-point (power-off tare weight as current tare weight).	0
C11	6	Zero tracking range: 0=no tracking; 1=±0.25d; 2=±0.5d; 3=±1d; 4=±1.5d; 5=±2d; <u>6=±3d</u> ; 7=±4d; 8=±5d; 9=±6d.	6
C12	2	Digital filter intensity: 0= very weak; 1=weak; 2=middle; 3=strong;	2
C13	5	Motion check range: $0=\pm 0.25d$, $1=\pm 0.5d$; $2=\pm 1d$; $3=\pm 1.5d$; $4=\pm 2d$; $5=\pm 3d$; $6=\pm 4d$; $7=\pm 5d$; $8=\pm 6d$; $9=\pm 7d$;	4
C14	1	Max. weight display: 0=FS+0d;	1
C15	0	0=BMI function is disabled 1=BMI function is enabled	0
C16	0	0= Do not recover parameters (Cxx & Uxx) to default set 1= Recover all parameters to default setting	0



CONFIG settings should only be performed by individuals with the required technical knowledge.

Table1: use Kg as calibration unit:

Calibration division	Display division value in different weight unit that can be used		
value	kg	lb	
0.0001kg	0.0001kg	0.0002lb	
0.001kg	0.001kg	0.002lb	
0.01kg	0.01kg	0.02lb	
0.1kg	0.1kg	0.2lb	
1kg	1kg	2lb	
10kg	10kg	20 lb	
0.0002kg	0.0002kg	0.0005 lb	
0.002kg	0.002kg	0.005 lb	
0.02kg	0.02kg	0.05 lb	
0.2kg	0.2kg	0.5 lb	
2kg	2kg	5 lb	
20kg	20kg	50 lb	
0.0005kg	0.0005kg	0.001 lb	
0.005kg	0.005kg	0.01 lb	
0.05kg	0.05kg	0.1 lb	
0.5kg	0.5kg	1 lb	
5kg	5kg	10 lb	
50kg	50kg	Not available	

Table2: use LB as calibration unit:

Calibration division	Display division value in different weight unit that can be used		
value	Kg	lb	
0.0001lb	Not available	0.0001lb	
0.001 lb	0.0005 kg	0.001 lb	
0.01 lb	0.005 kg	0.01 lb	
0.1 lb	0.05 kg	0.1 lb	
1 lb	0.5 kg	1 lb	
10 lb	5 kg	10 lb	
0.0002 lb	0.0001 kg	0.0002 lb	
0.002 lb	0.001 kg	0.002 lb	
0.02 lb	0.01 kg	0.02 lb	
0.2 lb	0.1 kg	0.2 lb	
2 lb	1 kg	2 lb	
20 lb	10 kg	20 lb	
0.0005 lb	0.0002 kg	0.0005 lb	
0.005 lb	0.002 kg	0.005 lb	
0.05 lb	0.02 kg	0.05 lb	
0.5 lb	0.2 kg	0.5 lb	
5 lb	2 kg	5 lb	
50 lb	20 kg	50 lb	

- 4. More Information for Configuration Parameters:
 - 4.1 The division (d) of scale is determined by C3,C4 and C5:

 If C3=3 (interval is 5), C4=2(decimal point is x.xx), C5=1(unit is lb),

 Then C3xC4xC5=5x0.01xlb=0.05lb,

 So, d=0.05lb
 - 4.2 The capacity is determined by C1 and d:

 If C1=3000, d=0.05lb, then C1xd=3000x0.05lb=150.00lb,

 So, the capacity (FS) is 150.00lb
 - 4.3 Operation on C16:

If you need to recover all configuration and user parameters to their default value, modify the "0" to "1" when "C16 0" is shown, then press the TARE key to confirm. The indicator will display "dEF.?" and "?" is flashed, press the TARE key to confirm, then "dEF.?" will flash to indicate recovery processing; "C16 0" will be displayed when the processing is complete. When the indicator displays "dEF.?" and "?" is flashed, press the ZERO/ON/OFF key to exit this mode and not to recover parameters.

NOTE: Different setting of the Configuration Parameters can result in the scale having a different performance!

6. <u>User Parameters Setup</u>

- 1. In normal weighing mode, press **UNIT** and **ZERO/ON/OFF** until "**USer**" is shown to enter in the mode.
- 2. Press the **UNIT** key to change the flashed digits, press the **HOLD/PRINT** key to shift the flashed position. Press the **TARE** key to confirm and save the set data and enter next setting. Press the **ZERO/ON/OFF** key to exit this mode.
- 3. Summary of User Parameters Setting:

Parameter		Setting	setting
U1	0 - 15	Auto-off time: 0: no auto-off function; 01-15: when no weight change or key operation is occurring, the scale will auto power off after 1-15 minutes.	
U2	Backlight on-off mode option: 0= Backlight is always off; 1= Backlight is always on; 2= Backlight is auto on and auto off. The backlight will auto off after 10 seconds of stable weigh or no key operation, and it will auto on when the scale weight is unstable or key operation is occurring.		2
U3	0, 1, 2	HOLD/PRINT key function set: 0=HOLD, 1=PRINT; 2=HOLD and PRINT	2
U4	0 - 50	Hold function mode: 0=no hold function; 1=hold larger weight reading; 2-50=when weight is more than 10d and the variety is within ±2d ~ ±50d, hold stable weight; When weight is below 10d and then over 10d and becomes stable, the new stable weight will be held.	2
U5	0 - 7	Serial communication output format: 0=communication is disabled 1=output stable weight, unit and status data after PRINT pressed, data has not been received; 2=output gross, tare, net weight, unit and status data after PRINT pressed; data has not been received; 3=continuously output displayed weight, unit and status data, data has not been received; 4=continuously output gross, tare, net weight, unit and status data, data has not been received; 5=output weight, unit and status data one time when scale becomes stable; 6=output gross, tare, net weight, unit and status data one time when scale becomes stable; 7=Command –response mode.	1
U6	3	Baud rate for Serial communication: 0=1200 , 1=2400 , 2=4800 ; 3=9600 ; 4=19200	3
U7	0	Serial communication data format: 0=8N1; 1=7O1; 2=7E1	0

4. More Information for User Parameters Setting:

U5 to set serial communication output format:

- (1). U5=0: No serial communication function. It will not transmit or receive any data even if the scale is installed with serial communication hardware. Serial communication function can be only activated when the scale is in normal weighing mode.
- (2). U5=1: Press PRINT key, the scale will output the current stable weight, weight unit, and current Status data; it does not receive any data. The output format is as below:

<LF>< weight reading, minus, decimal point, weight unit><CR><LF>H1H2H3 <CR><ETX>

(3). U5=2: Press PRINT key, the scale will output the data of stable gross, tare, net weight, weight unit and current status data. The format is as follows:

<LF><Gross: reading, minus, decimal point, unit><CR>

<LF><Tare: reading, decimal point, unit><CR>

<LF><Net: reading, minus, decimal point, unit><CR>

<LF>H1H2H3<CR><ETX>

The number of bytes used:

Weight reading ----- 8bytes;

Minus -----1byte;

Decimal point -----1byte;

Weight unit -----2 or 5 bytes;

Current status (H1.H2.H3) ----- 3bytes

- (4). U5=3: Continuously output of the current displayed reading, weight unit and current status data, it does not receive any data. The output format is same as U5=1.
- (5). U5=4: Continuously output of the current gross weight, tare weight, net weight data, weight unit and current status data, it does not receive any data. The output format is same as U5=2.
- (6). U5=5: When the scale is stable, it will output the current displayed reading ,weight unit, and current status data automatically one time, it does not receive any data. The output format is same as U5=1.
- (7). U5=6: When the scale is stable, it will output the current gross weight, tare weight, net weight unit and current status data automatically one time, it does not receive any data. The output format is same as U5=2.
- (8). U5=7: Bio-Serial Communication: after receiving an available command, the indicator will send out the corresponding messages.

5. More Details About Serial Communication

The following details contain more information for when U5 is set to 7:

- a) The baud rate and data format is set by U6 and U7. Responses to serial commands will be immediate, or within one weight measure cycle of the scale. One second is adequate for use as a time-out value by remote (controlling) device.
- b) The length of the weight field will be 8 digit weight data, one for minus sign, one for decimal point, two for measure unit (e.g. "lb", "kg"). If the unit is lb:oz, another two for

"lb" and one for a space (<sp>) after lb. Units of measure abbreviations are always lower case.

- (1). If the weight is overcapacity, the scale will return ten '^' characters (the field of minus sign, decimal point, weight data is filled by '^').
- (2). If the weight is under capacity, it will return ten '_' characters (the field of minus sign, decimal point, and weight data is filled by '_').
- (3). If the zero point has an error, it will return ten '_' characters.
- (4). The character will be '-' for negative weight or a space character for positive weight. Minus sign follow after the first digit.
- (5). Useless leading zero before digits are suppressed.
- c) Key to symbols used

<LF> : Line Feed character (hex 0AH)

<CR> : Carriage Return character (hex 0DH)

<ETX>: End of Text character (hex 03)

<SP> : Space (hex 20H)

H1H2H3: Three status bytes

: Polarity character including minus sign for negative weight and a space character for positive weight

W1-W8 : Weight data <dp> : Decimal point

U1U2: Measure units, "kg", "lb", or "lb oz"

- d) Commands and responses
 - (1). Command: W<CR> (57h 0dh)

Response:

Or

① over capacity:

<LF>^^^^u1u2<CR><LF>H1H2H3<CR><ETX>

② under capacity:

<LF>____u1u2<CR><LF> H1H2H3<CR><ETX>

3 zero-point error:

<LF>-----u1u2<CR><LF> H1H2H3<CR><ETX>

Note: If the weight unit is lb: oz, U1U2= "lb oz" in above item ①②③.

- Wormal weight is displayed, current weight unit is kg or lb, decimal point position is set by C4:
 - <LF>w1w2w3w4w5w6<dp>w7w8u1u2<CR><LF>H1H2H3<CR><ETX>
- ⑤ Normal weight is displayed, current weight unit is lb:oz, <LF>w1w2w3w4w5w6lb<sp>w7w8<o><z><CR>H1H2H3<CR><ETX>
 - <LF>w1w2w3w4w5lb<sp> w6w7<dp>w8oz<CR>H1H2H3<CR><ETX>
- (2). Command: S<CR> (53h 0dh)

Response: <LF> H1H2H3<CR><ETX>

(3). Command: Z<CR> (5ah 0dh)

Response: <LF>H1H2H3<CR><ETX>

Zero function is activated, and then it returns to current scale status, similar to pressing the **ZERO** key. If **ZERO** function cannot be activated, it will return to current scale status.

(4). Command: T<CR> (54h 0dh)

Response: <LF> H1H2H3<CR><ETX>

TARE function is activated, and then returns scale status, similar to pressing the **TARE** key. If **TARE** function cannot be activated, it will return to current scale status.

(5). Command: U<CR> (55h 0dh)

Response: <LF>u1u2<CR><LF> H1H2H3<CR><ETX>

Changes units of measure and return scale status with new units, similar to pressing the **UNIT** key. The new measure unit should be allowed to use as a C5 setting. If the weight unit is lb:oz, U1U2= "lb oz"

(6). Command: L<CR> (4ch 0dh)

Response: <LF> H1H2H3<CR><ETX>

If **HOLD** function is enabled, go to or exit from **HOLD** mode, similar to pressing the **HOLD** key.

(7). Command: X<CR> (58h 0dh)

Response: NONE

Power off the scale, similar to pressing and holding the ZERO/ON/OFF key for 4 seconds.

(8). Command: all others

Response: <LF>? <CR><ETX>

Unrecognized command

- e) Additional Commands and Responses for Scale Base Application:
 - (1). Command: F<CR> (46h 0dh) --- to restore factory calibration data

Response: <LF>OK H1H2H3<CR><ETX>

(2). Command: O<CR> (4Fh 0dh) --- zero point calibration
Response: <LF>OK H1H2H3<CR><ETX> --- if zero calibration is sufficient
<LF> H1H2H3<CR><ETX> --- if zero calibration resulted in an error

(3). Command: H<CR> (48h 0dh) --- weight calibration Response: <LF>OK H1H2H3<CR><ETX> --- if weight calibration is sufficient <LF> H1H2H3<CR><ETX> --- if weight calibration resulted in an error

f) Output status bit meaning:

The status bit definition:

Bit	Byte 1 (H1)	Byte 2 (H2)	Byte 3 (H3)
0	0=stable	Capacity	01=normal work
	1= not stable	11 - Linder canacity	mode 10= hold work mode
	0= not at zero	()= not over	00=not define
1	point	capacity	11= not define
	1= at zero point	1= over capacity	TT= TIOL GOILLO
2	0=not AD over	0=not Zero Over	0= gross weight
	1=AD over	1=Zero Over	1= net weight

3	0= eeprom OK	0=not Zero down	0=not AD down
3	1= eeprom error	1= Zero down	1=AD down
4	always 1	always 1	always 1
5	always 1	always 1	always 1
6	always 0	always 1	always 0
7	parity	Parity	parity

7. Symbol Definitions:

-Zero point is over the setting range -Zero is below the setting range -Analog digital converter chip over max. range -Analog digital converter chip below min. range -Weight signal is too large -Weight signal is too small --- --- ----Config parameters incorrect (no set, no calibration, over normal range, etc.) EEP.E1 EEP.E2 -User parameters are incorrect -Calibration point CAL-PX CAL.Er -Error in calibration -The setting full capacity will be displayed CAP.--Cx.y -No. x configuration parameter is set to y Ux.y -No. x user parameter is set to y

-Battery voltage is below 4.2V

Lo.bAt

8. Trouble shooting:

SYMPTOM	PROBABLE CAUSE	REMEDY
Does not turn on.	 AC adapter is not securely connected Low battery Indicator is damaged 	 Re-plug the AC adapter or rotate the plug to securely connect to the scale Replace the batteries Replace with a new indicator and perform calibration
Ad	The cable from platform to indicator is not correctly connected, or disconnected, or	Check the cable Replace with a new indicator and
Ad	short circuit 2. Indicator is damaged 3. Load cell cable is broken 4. Load cell is damaged	perform calibration. 3. Return the scale for repair
0	Indication is out of key zero range	Reduce the weight on platform, till the indication is within the key zero range.
0	Weight reading below Power On Zero limit.	 Check whether an object is stuck between scale base, if yes, remove the object. Perform zero calibration.
	 Weight reading exceeds overload limit The weight value cannot be displayed in the current unit of measure because it exceeds 6 digits. 	 Reduce load on the scale until a weight value is displayed. Use a more appropriate unit of measure.
	Weight reading below Under load limit	Perform zero calibration
EEP.E1	CONFIG parameters are not correctly set	Re-set CONFIG parameters as technical manual instructed.
EEP.E2	USER parameters are not correctly set	Re-set USER parameters per the Technical manual
CAL.Er	 Input data or loaded weight is too small, too big Weight signal is unstable, un-linear 	 Input correct data, load correct weight onto platform. Return the scale for repair
Cannot zero the display	 Load on scale exceeds allowable limits. (20%FS) Load on the scale is unstable 	 Remove load from the scale. Wait for the load to stabilize then press the ZERO/ON/OFF key to zero the display
Weighing is not accurate	An object is stuck between the load cell and scale base Load cell received a heavy impact	 Remove the object Perform calibration Place the load on the center of the weighing platform



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