

WIRELESS TENSION LINK USER MANUAL



MODEL: EBW-2D

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SAFE OPERATION GUIDE:

1. The capacity of tension link have been showed on the overlay, Don't make lifts beyond rated capacity of the tension link.
2. Operators should not maneuver a loaded tension link over personnel.
3. The tension link must be routinely checked for operation. Don't operate if shackle, sling, cable, etc show any sign of defects or excessive wear.
4. If the tension link is not going to be used for long time, recharging the battery every three months to preserve the life-span of the battery and recharge it before operation.
5. The battery charger is included in the tension link package. Please use this charger, It's normal that the charger will become warm when the battery is charging.
6. Please note when the digits flash on the display, it means that the battery needs to be recharged.
7. Check shackle, safety pins, and latches periodically. Contact your dealer for parts replacement in case defect, deform or wearing is found.

CHAPTER 1 FEATURES AND SPECIFICATION

1. Features

◆ **Wireless communication and display**

Wireless indicator, 5 digits LCD display with backlight, Many functions on handheld indicator

280D. Such as tare, zero, peak, filter setting, gravity regulation. calibration is easy through

wireless indicator. ,

◆ **Two set point**

Two user programmable Set-Point can be used for safety and warning applications or for limit weighing.

◆ **User-friendly design:**

Cast alloy steel housing for maximum protection; water proof design, gravity compensation; safety factor up to 4 times capacity; battery operated with low battery indication; automatic turn off , power-saving function.

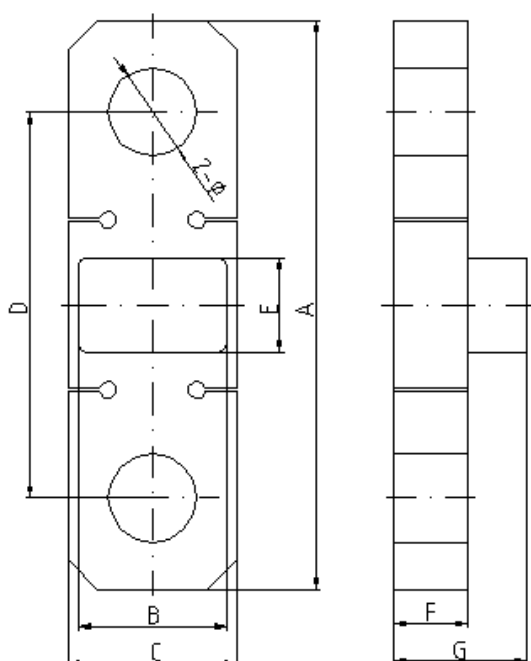
2. Main technical data

Accuracy Standard	According to OIML class III
Indicator Display	25mm(1") 5digits LCD
Water Proof Class	IP66 (Hand control no IP class)
Zero Range	4% F.S.
Tare Range	100% F.S.
Stable Time	≤5 seconds
Overload Indication	100% F.S. + 9e
Max. Safety Load	125% F.S.
Ultimate Load	400% F.S.
Tension link battery Life	Continuous using 90 hours after recharged
Tension link battery type	Standard 18650 Lithium battery, 3.7V/3100mAh
Indicator Battery	Standard 18650 Lithium battery, 3.7V/3100mAh
Tension link Charger	DC4.2V/1000mA
Nominal operating Temp.	- 10°C ~ + 40°C
Operating Humidity	≤85% RH under 20°C
Wireless Distance	100M without obstacle
Wireless Frequency	433MHz

3. Specification

MODEL	Max. capacity (kg)	Min. weigh (kg)	Division (kg)	Total display counts (n)
EBW-5	5000	40	2	2500
EBW-10	10000	100	5	2000
EBW-20	20000	200	10	2000
EBW-30	30000	200	10	3000
EBW-50	50000	400	20	2500
EBW-100	100000	1000	50	2000
EBW-150	150000	1000	50	3000
EBW-200	200000	2000	100	2000

4. Appearance illustration



MODEL	Cap. (kg)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	2-Φ (mm)	N.W (kg)
EBW-5	5000	190	110	60	137	65	30	70	27	2.6
EBW-10	10000	245	110	70	168	65	36	76	41	4.3
EBW-20	20000	312	110	94	206	65	45	85	54	8.5
EBW-30	30000	370	110	114	246	65	50	90	60	14
EBW-50	50000	460	110	140	309	65	60	100	73	25
EBW-10	100000	580	110	180	389	65	80	120	99	53
EBW-15	150000	690	110	220	456	65	90	130	112	89
EBW-20	200000	800	110	250	534	65	100	140	134	128

5. Tension link power supply

Battery: Standard 18650 Lithium battery, 3.7V/3100mAh

Adapter: Standard 18650 Lithium battery charger

Current: the tension link average current is about DC 30mA±10%, if battery charged, it can be used for about 90hours.the battery voltge should be between 3.40-4.20, When the voltage below

3.40, it means the battery needs to be recharged. User can remove the battery cover to change

new battery, and charge the old battery with adapter.

Charging method: Take out the18650 Lithium battery, put in the charger for charging, the charge

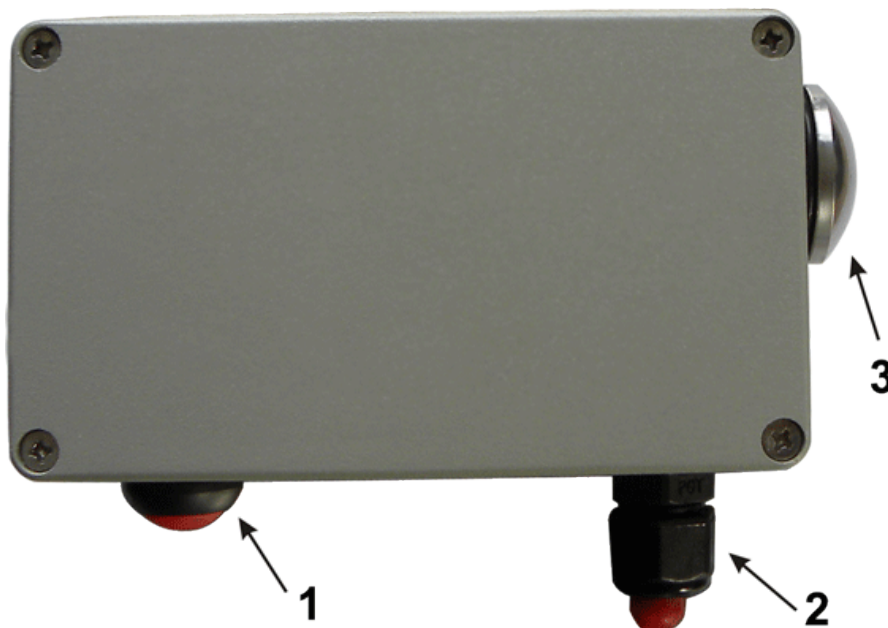
lamp on the front panel will become orange when charging, and it will become green when the

charging finish. Generally, charging time should not less than 4hours, it have charging protection,

long time charging can't damage the battery.

CHAPTER 2 INDICATOR DISPLAY

1. Tension link transmitter



1. ON/OFF KEY



When the key is pressed ON, the red light will flash

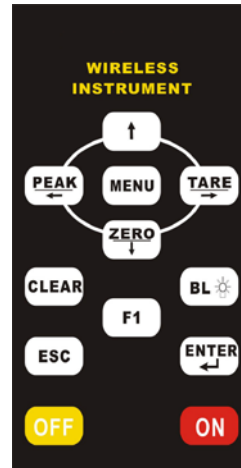
2. ANTENNA

The antenna is install with water proof connector.

3. Battery cover

User can removed the battery cover to change battery (lithium battery 18650)


2. Indicator display



1. LCD DISPLAY

25mm(1") 5digits LCD with backlight

2. Signal on LCD

a. : Wireless signal, it Appear means signal stable, it disappear while signal miss. it flash

means signal weak.

b. : Battery Voltage, : Full, : Low, : Empty

c. **PEAK**: Current value is Peak Hold value(maximum value).

d. **MEM**: Appear one time when Parameter or calibration value storage. long time appearance means current value is Accumulation data.

e. **STB**: Stable Status.

f. **kN**: "kilonewton", **N**: "Newton". Tare status "N" will flash.

g. **t** : "ton".


h. **lb** : "pound".

i. **kg** : "kilogram".

3.Key

a. , 

1. Press  Key 1 Second, the indicator turn on.

2. In ON status, Press  Key 1 Second, the indicator turn off.

b. 

1. In testing status ,there are small digits on screen, press this key to obtain the zero reading.





























2.In Parameter Setting status , it used as scrolling down digit.

c. 

1. When there is tare weight such as container, after the reading stable, press this key, it will display “0”, and “N” indicator Flash.
2. Put the goods into container, the tension link will display goods net weight.
3. If move goods and container, the tension link will display minus value of tare weight.
4. In Parameter Setting status, it used as digits movement.

d. 

Used as function shift, or be combined with other keys.










- ◆ Press  key once, it display “P0000”, press     key , it can be input password to access parameter setting or calibration status.(refer to P12 CHAPTER 4)
- ◆ Press  key twice, it display “unit”, Press  key access unit Setting status. Press  key to select unit (kg,lb,N,kN,t,). After setting finish, press  key to confirm setting and back to test mode.
- ◆ Press  key 3 times, it display “SACCU”, Press  key to read accumulate data, it will display “no.xxx” and “Hxxxx”, “Lxxxx”, “no.xxx” means accumulate numbers, “Hxxxx”, “Lxxxx” means accumulate data, if there is no accumulate data ,it will display “noACC”, press  key back to test mode.
- ◆ Press  key 4 times, it display “SEtr”, Press  key access pre-tare value setting. Press  key to adjust digit, press  key to move digit, press  key again back to test mode. after Pre-tare value setting, the “N” will flash on LCD.(NOTE: All pre-tare value will set by unit kg)
- ◆ Press  key 5 times, it display “dISrU”, Press  key will display tension link voltage, press  key back to test mode.
- ◆ Press  key 6 times, it display “dISLU”, Press  Key will display indicator’s voltage, press  key back to test mode.
- ◆ Press  key 7 times, it display “dIS 0”, Press  Key will display tension link’s AD Value. After 2 seconds,it auto back to test mode.
- ◆ Press  key 8 times, it display “dISOL”, Press  Key will display “OL=xx” it means tension link’s overload numbers, Press  Key back to test mode.

e.  Used as function selection, normally combined with  Key.

f. 

When load is changing, press this key will catch and display the maximum reading of the load.

Press this key again, reading will return to normal.(in setting mode it can move digit to left).


- g.  It is LCD backlight switch. Press once, LCD backlight ON, press again, LCD backlight OFF.
- h.  It is accumulation key, In weighing status press this key will accumulate data (the value must be stable and more than 20e)
- i. 
 - Press  key one time, it will display "CLr 1" Press  key to clear single accumulation value, Press  key 2 times, it will display "CLr 2" Press  key to clear all Accumulation value, Press  key 3 times, it will display "CLr 3" Press  key to clear over load records,

CHAPTER 3 OPERATION GUIDE


Note: [] means the display content

1 TURN ON/OFF


- ◆ Turn on tension link
Press ON/OFF key, the key light will flash.
- ◆ Turn on indicator (Turn on tension link at first)

OPERATIO	DISPLAY	ILLUSTRATION
	[[88888]]	Display twice, self test
	[[Ert]]	Display twice, abbreviation of Everight
	[[u 2.03]]	Display current software version
	[[5000]]	Display maximum capacity
	[[U=4.80]]	Display current indicator battery voltage
	[[———]]	Waiting stable
	[[0]] or [[noSIG]]	If display 0, means the indicator can communicate with the tension link, if display noSIG, means no signal from tension link

- ◆ Turn off tension link
Press ON/OFF key when power ON status, the key light will not flash
- ◆ Turn off indicator


1	Manual Power OFF	Press  Key 1 Second
2	Auto Power OFF	The indicator will turn off automatically after

2 ZERO



OPERATION	DISPLAY	
Press 	[0]	When tension link turn on, generally tension link displays [0], if display small digits when no load, press this key.

3 TARE

◆ TARE DIRECTLY

	OPERATION	DISPLAY	
1	Press 	[0]	After turn on, hanging tare weight such as sling, cable at first, press this key, "TARE" light on, then the tension link will display net weight of the goods.

4 PEAK HOLD




OPERATION	ILLUSTRATION
Press 	Hold the maximum weight reading when load changing
Press  again	Return to normal weighing status

5. ACCUMULATION

OPERATION	DISPLAY	ILLUSTRATION
Press 	[No***]	Current accumulation time
	[H****]	Front four digits of total value
	[L****]	Rear four digits of total value





After display above contents twice, the tension link will return automatically. maximum Accumulation times is 999.

6. ACCUMULATION SEARCH







OPERATION	DISPLAY	ILLUSTRATION
Press  key 3 times	[SACCU]	
Press 	[No***]	Current accumulation time
	[*****]	Current weight reading
	[H****]	Front four digits of total value
	[L****]	Rear four digits of total value
Press  key again		Return

Press  key can check different times weight and accumulation.

7. ACCUMULATION CLEAR


OPERATION	DISPLAY	ILLUSTRATION
Press  key	[[CLr 1]]	Ask if you want to clear or not
Press  key again	[[CLr 2]]	Ask if you want to clear or not
	[[noCLr]]	Press  key Cancel clear
	[[88888]]	Press  key Confirm clear

8. TENSION LINK & INDICATOR BATTERY VOLTAGE





OPERATION	DISPLAY	ILLUSTRATION
Press  key 5 times, press  key.	[[dISrU]]	display tension link voltage
	[[U *.*]]	tension link voltage
Press  key		Return
Press  key 6 times, press  key.	[[dISLU]]	display indicator voltage
	[[U *.*]]	Indicator voltage
Press  key		Return

Note : Tension link and indicator battery voltage normally between [[U 3.40]]


to [[U 4.20]], if tension link battery below [[U 3.40]], indicator will show [[-Lb-]], it means user need to change new battery. if indicator battery voltage below [[U 4.20]], the display will flash, and battery signal

show : Empty, indicator should be recharged immediately

9. UNIT

OPERAT	DISPLAY	ILLUSTRATION
Press  key 4 times	[[UnIt]]	
press  key	[[Un=0]]	Press  to select unit from 0-4, 0 means kg 1 means lb, 2 means N, 3 means KN, 4 means
Press  key	<input type="checkbox"/> 0 <input type="checkbox"/>	Confirm unit chosen and return

10. RETURN












OPERATION	DISPLAY	ILLUSTRATION
Press 	[[0]]	Return to normal testing






11. SET POINT

There are two user programmable Set-Point can be used for safety and warning applications

or for limit weighing.

 — 1 LO SP1 1 HI 2 LO SP2 2 HI —











OPERATION	DISPLAY	ILLUSTRATION
Press  key	〔 P0000 〕	Press  and  input P8088
Press  12 times	〔 SP1 〕	Set point 1
Press  to confirm	〔 1 OFF 〕	New tension link, it display 1 OFF, if parameter set, it display set value.
Press  to choose	〔 1 HI 〕 or 〔 1 LO 〕	There are 3 choice, 1 OFF means you don't set point, 1 HI means the indicator will alarm when load exceed the value you set, 1 LO means the indicator will alarm when load smaller than the value
Press  to confirm	〔 02000 〕	New tension link it display 02000, if parameter set, the screen display set value.
Press  and  to change value	〔 01000 〕	Set “1 HI” or “1 LO” Value. e.g. 1000kg
Press  to confirm	〔 SP2 〕	Set point 2
Press  to confirm	〔 2 OFF 〕	New tension link, it display 2 OFF, if parameter set, it display set value.









Press  to choose	〔 2 HI 〕 or 〔 2 LO 〕	There are 3 choice, 2 OFF means you don't set point, 2 HI means the indicator will alarm when load exceed the value you set, 2 LO means the indicator will alarm when load smaller than the value
Press  to confirm	〔 01200 〕	New tension link it display 01200, if parameter set, the screen display set value.
Press  and  to change value	〔 03000 〕	Set “2 LO” or “2 HI” Value. e.g. 3000kg
Press  key	〔 End 〕 〔 0 〕	Confirm above parameter setting, Exit parameter setting program.















If you needn't to set point, you only need to press **【ENTER】** until it display next function
 [g=]





CHAPTER 4 PARAMETER SETTING & CALIBRATION

1. PARAMETER SETTING

OPERATION	DISPLAY	ILLUSTRATION
Press(ON/OFF) and 	[0]	Turn on tension link and indicator
Press 	[P0000]	Press  and  input P8088
Press 	[FS=06]	New tension link, it display FS=06 , if tension link calibrated, it will display capacity.
Press  to choose	[FS=05]	Choose capacity, the screen display 02/03/05/06/10/15/20/30/50/60/75/80/A0/F0 circularly , take cap:5000kg/2kg as example, choose FS=05, See following list about FS, Id, Pt chosen.
Press  to confirm	[Id=02]	New tension link ,the screen display Id=02, if tension link calibrated, it will display calibrated division.
Press  to choose	[Id=02]	Choose division, it display 01/02/05/10/20 circularly. 5000kg tension link division is 2kg, so choose Id=02
Press 	[Pt=0]	New tension link, it display Pt=0, if tension link calibrated, it will display calibrated decimal position
Press  to choose	[Pt=0]	Choose decimal position, the screen display 0/1/2/3 circularly, 0=xxxxx, 1=xxxx.x, 2=xxx.xx, 3=xx.xxx , Cap.5000kg ,we choose Pt=0

Press  to confirm	[[Ab=24]]	Display zero range , A: zero range by hand; B: zero range automatically, 0~5 total 6 options: 0=0%F.S; 1=2%F.S; 2=4%F.S; 3=10%F.S; 4=20%F.S; 5=50%F.S, Generally Don't change this parameter.
Press  to confirm	[[Cd=11]]	New tension link, the screen display Cd=11,if Tension link calibrated, it display calibrated value.
Press  to choose	[[Cd=12]]	C: zero-tracking range, 0~5 total 6 options; 0=0d; 1=0.5d; 2=1d; 3=1.5d; 4=2d; 5=2.5d d: display speed, 0~2 total 3 options; 0=slow; 1=average; 2=fast; before calibration, set Cd=00 to achieve high accuracy, after calibration, set Cd=11 again, generally choose Cd==12 when ex-stock..
Press  to confirm	[[LL=2]]	New tension link, it display LL=2, if tension link calibrated, it display calibrated value.
Press  to choose	[[LL=1]]	LL: filter parameter, 0~5 total 6 options, from smallest to biggest , before calibration, set LL=0, after calibration, set LL=1 , generally choose LL=1 when ex-stock..
Press  to confirm	[[Un=0]]	New tension link, it display Un=0, if dyna-link calibrated , the screen display calibrated unit.
Press  to choose	[[Un=0]]	Choose unit , Un=0 : kg, Un=1: lb, Un=2: N,Un=3: KN, Un=4: ton, Generally, choose Un=0 when ex-stock.
Press  to confirm	[[OFF 1]]	New tension link, it display OFF 1,if tension link calibrated , it display calibrated value.

Press  to choose	[[OFF 2]]	Choose turn off method, 0~2 total 3 options; 0: turn off by hand; 1: if no operation, the screen display ----- after 15minutes to save power; 2: if no operation, the screen display ----- after 15minutes, and turn off automatically after 60minutes. Generally,
Press  to confirm	[[SP1]]	Set point 1
Press  to confirm	[[1 OFF]]	New tension link, it display 1 OFF, if parameter set, it display set value.
Press  to choose	[[1 HI]] or [[1 LO]]	There are 3 choice, 1 OFF means you don't set point, 1 HI means the indicator will alarm when load exceed the value you set, 1 LO means the indicator will alarm when load
Press  to confirm	[[02000]]	New tension link it display 02000, if parameter set, the screen display set value.
Press  and  to change value	[[01000]]	Set "1 HI" or "1 LO" Value. e.g. 1000kg
Press  to confirm	[[SP2]]	Set point 2
Press  to confirm	[[2 OFF]]	
Press  to choose	[[2 HI]] or [[2 LO]]	There are 3 choice, 2 OFF means you don't set point, 2 HI means the indicator will alarm when load exceed the value you set, 2 LO means the indicator will alarm when load
Press  to confirm	[[01200]]	New tension link it display 01200, if parameter set, the screen display set value.
Press  and  to change value	[[03000]]	Set "2 LO" or "2 HI" value. e.g. 3000kg
Press  to confirm	[[g=]]	Acceleration of gravity

Press  to confirm Then Press  and  to change value	[9.7930]	New tension link , it display 9.7930 (here in Hangzhou) , if tension link calibrated, it display calibrated value. user can change it according to local area gravity value, the value range is 9.783-9.832.
Press  key	[End] [0]	Confirm above parameter setting, Exit parameter setting program.








The capacity you choose relate to division, decimal position, below is detail list:

















CAPACITY/DIVISION	FS (CAP)	Id (DIVISION)	Pt (DECIMAL POSITION)
1000kg/0.5kg	10	05	1
2000kg/1kg	02	01	0
3000kg/1kg	03	01	0
5000kg/2kg	05	02	0
10000kg/5kg	10	05	0
15000kg/5kg	15	05	0
20000kg/10kg	20	10	0
30000kg/10kg	30	10	0
50000kg/20kg	50	20	0
100000kg/50kg	A0	50	0
1500000kg/50kg	F0	50	0

200t use specail software, no need to set FS,Id,Pt.

2. Calibration

User must set all parameter before calibration

OPERATION	DISPLA	ILLUSTRATION
Press(ON/OFF) and 	[0]	Turn on tension link and indicator . Take Cap:5000kg tension link as example , make sure it display [0] before calibration, you can hang tare weight first, then turn on to get zero reading
Press 	[P0000]	Press  and  input P1358
Press 	[CLlbr]	Access calibration Status
Press 	[CALSP]	Zero point calibration
Press 	[LoAd]	First load calibration

Hanging first standard weight, e.g. 1000kg		Waiting until STB signal on screen
Press 	[05000]	Display capacity you choose in parameter setting , and first digit flash · Do wait until “STB” signal display
Press  and 	[01000]	Press  to change value, press  to move the digit, input actual weight 1000kg
Waiting until stable Press	[LoAd2]	Confirm and storage, into second load calibration
Hanging second standard weight, e.g. 3000kg		Second load must exceed Load 1+20% capacity, Waiting until STB light on.Waiting until STB signal
Press 	[02000]	Mention you Load2 must exceed 2000kg ,and first digit flash · Do wait until “STB” signal display
Press  and 	[03000]	Press  to change value, press  to move the digit, input actual weight 3000kg
Waiting until stable Press	[LoAd3]	Confirm and storage, into third load calibration
Hanging third standard weight, e.g. 5000kg		Third load must exceed Load 2+20% capacity, Waiting until STB light on.Waiting until STB signal
Press 	[04000]	Mention you Load3 must exceed 4000kg ,and first digit flash · Do wait until “STB” signal display
Press  and 	[05000]	Press  to change value, press  to move the digit, input actual weight 5000kg
Press 	[End]	
	[05000]	Calibration finish

Attention:

1. LOAD1 must larger than 20% capacity, and $LOAD1 < LOAD2 < LOAD3$, at the same time, between LOAD1 and LOAD2, LOAD2 and LOAD3, the interval must bigger than 20% capacity
2. If LOAD1 is bigger than 80% capacity, such as full capacity, after first load calibration, it will finish automatically,. Generally, we strongly recommend you to use this one point calibration program if you have 100% capacity standard weight
3. If you only have 20% standard weight, after first load calibration, when it display [LoAd2] , press **【ESC】** , it will display End. Calibration finish.

CHAPTER 5 DISPLAY ILLUSTRATION

DISPLAY	ILLUSTRATION	REMARK
〔noSlg〕	Without wireless signal	Distance too far.
〔SEtUP〕	Enter into parameter setting	
〔UAdJ 〕	Enter voltage calibration	
〔LoAd〕	Calibration point	
〔- - - - 〕	Exceed high limit	Tare weight can't exceed full capacity
〔 - - - - 〕	Exceed low limit	Tare weight can't be negative
〔 - - - - 〕	Waiting stable	
〔Err10〕	Weight less than Min. Capacity	Can't accumulate the value
〔Err11〕	Accumulated times overflow	Can't accumulate after 30times
〔Err12〕	Accumulated weight overflow	Can't accumulate after 99999
〔Err13〕	Error in repeat accumulation	Can't accumulate one weight repeatedly
〔no***〕	Current accumulation times	
〔H****〕	Front four digit of accumulated	Total weight=front four digit + rare four digit
〔L****〕	Rare four digit of accumulated	Total weight=front four digit + rare four digit
〔 CLr 〕	Ask if you really want to delete accumulated weight	In case error deletion
〔noCLr〕	Give up deletion	
〔88888〕	Confirm deletion	
〔 - - - 〕	Input value is too large	When you input tare or weight value
〔 - - 〕	Input value is too small	When you input tare or weight value
〔noACC〕	No any accumulated content	when you check accumulation
〔-oL0- 〕	Overload warning	Tare + Net weight exceed full capacity + 9e
〔-oL1- 〕	Overload warning	Tare + Net weight exceed full capacity 125%
〔-Lb- 〕	Low battery warning	Turn off automatically one minute later
〔U*.**〕	The voltage of current battery	
〔 End 〕	End	when parameter setting or calibration ready
〔 OFF 〕	Turn off	
〔Unstb〕	Input value before STB light on	

CHAPTER 6 TROUBLESHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE	SOLUTION
No display	Defective battery	Replace
	Defective button	Requires authorized service
	Power button not properly pressed	Press ON/OFF key firmly in three seconds
Digits flash	Low battery	Replace battery
Display doesn't respond to load changes	Faulty load cell or PCB	Requires authorized service
	Out of calibration	Re- calibration
Display experiences excessive Zero drift	tension link do not stabilize after turning on	After turning on, heating 3-5 minutes.
Displayed weight shows large error	tension link not Zeroed before applying weight	Depress ZERO before applying
	Requires recalibration	See calibration
	Kg/lb wrong selection	See operation
Wireless distance shortened	Wireless indicator's battery is low	Replace battery.

CHAPTER 7 RS232 PROTOCOL

Port : COM1
 Baud Rate: 4800
 Data Bits : 8
 Stop Bits : 1
 Parity : None

ASCII Code and Binary hybrid transmission

=	FLAG (1Byte)								Unit (1Byte)	Sign and Decimal (1Byte)
	F1	F2	F3	F4	F5	F6	F7	F8		
praeamble	S T A B L E O A D	O V E R L O A D	T A R E	H O L D	P E A K	B E T T E R Y	SP A T A R M		0x30: kg 0x31: Lb 0x32: N 0x33: kN 0x34: t	(+ and -) sign: High 4 bits Decimal: Low 4 bits

=	0: no	0: no	0: no	0: no	0: no	0: LOW	0: no			0:POSITIVE 1:NEGATIVE
	1: YES	1: YES	1: YES	1: YES	1: YES		1: YES			0:No Decimal 1:1 Decimal 2:2 Decimal 3:3 Decimal

TTTTT	,	NNNNN/PPPPP	
5Byte	1Byte	5Byte	
Tare value	Separate symble	Net value and Peak value	
0x30~0x39 Overload: 3SP+OL		0x30~0x39 Overload: 3SP+OL	

Example:

67.8kg: (F1 F2 F3 F4 F5 F6 F7 F8)30 01 30 30 36 37 38, 30 30 36 37 38

-68.1lb: (F1 F2 F3 F4 F5 F6 F7 F8)31 F1 30 30 36 37 38, 30 30 36 37 38

6.78kg: (F1 F2 F3 F4 F5 F6 F7 F8)30 02 30 30 36 37 38, 30 30 36 37 38