

sisco

Industrial Wireless Dynamometer **SISCO-GWD400**



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SAFE OPERATION GUIDE

1. Do not make lifts beyond rated load capacity of the dynamometer, shackle.
2. Do not perform overhead weighing. Stay clear when Dynamometer is in operation.
3. Do not perform weighing under strong wind condition which may cause incorrect reading.
4. Do not perform weighing under environment of temperature rapid changes in which may cause incorrect reading.
5. Do not attempt to open this Dynamometer, no user serviceable parts inside.
6. Do not remove wire rope stopper from hook. For safety reasons, always apply it.
7. Remove all loads from shackle or hook when not in used.
8. Before weighing, check and make sure that all hanging /load- receiving elements / devices are in good condition.
9. Check hook, shackle, safety pins, and latches periodically. Contact your dealer for parts replacement in case defect, deform or wearing is found.
10. Always lift loads vertically.

CHAPTER 1 FEATURES AND SPECIFICATIONS

Introduction:

GWD400 Dynamometer is an extremely well-built instrument for industry use ,as a standard force measurement tool offer universal applications, Whether used as conventional crane weigher or to measure force, GWD400 Dynamometer is microprocessor controlled for precision accuracy, parameter setting and calibration is easy to operate through remote controller.

1. Features

- Rugged construction.
- Accuracy: 0.05% of capacity
- Two user programmable Set-Point can be used for safety and warning applications or for limit weighing.
- All functions and units are clearly display on the LCD (with backlight)
- All commonly used internationally recognized units are available: kilograms (kg), pounds(lb), Newton and kilo-newton(kN).
- 4 local mechanical keys: "ON/OFF", "ZERO", "PEAK" and "Unit Change".
- Low battery warning.

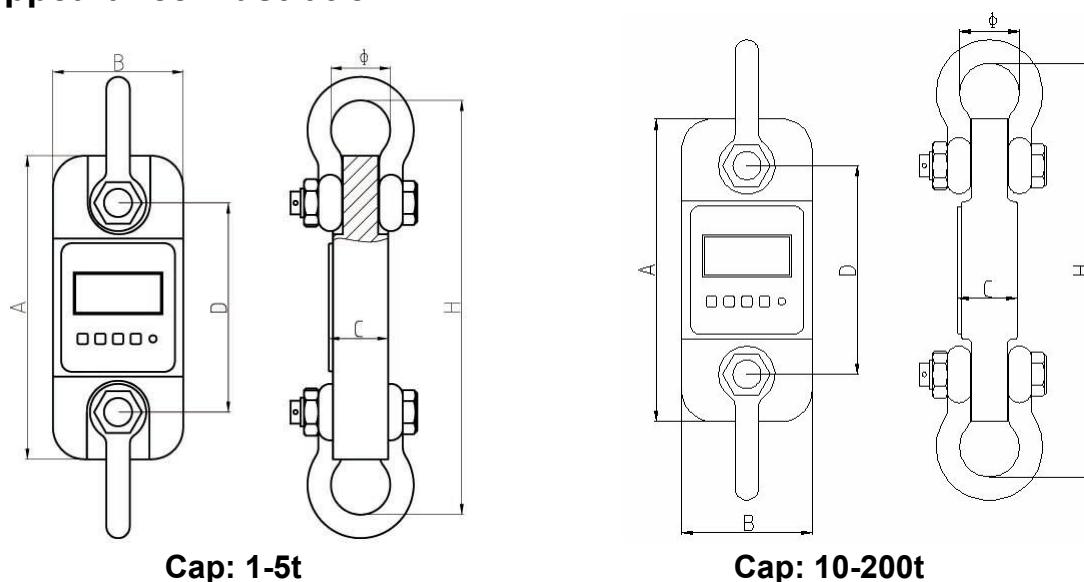
2. Main technical data

Display	25mm (1") 5digits LCD with backlight
Power on zero range	20% F.S.
Manual 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.
Dynamometer battery	"LR6(AA)"size alkaline batteries. 1.5Vx3
Remote control battery	"LR6(AAA)"size alkaline batteries. 1.5Vx2
Operating Temp.	- 10 °C ~ + 40 °C
Operating Humidity	≤85% RH under 20 °C
Remote Controller Distance	Min. 15m

3. Specification

Model	Capacity(kg)	Min.Weigh(kg)	Division(kg)	Total counts (n)
GWD400-01	1000	10	0.5	2000
GWD400-02	2000	20	1	2000
GWD400-03	3000	20	1	3000
GWD400-05	5000	40	2	2500
GWD400-10	10000	100	5	2000
GWD400-20	20000	200	10	2000
GWD400-30	30000	200	10	3000
GWD400-50	50000	400	20	2500
GWD400-100	100000	1000	50	2000
GWD400-200	200000	2000	100	2000

4. Appearance illustration



DIMENSIONS(Dimensions shown are nominal and subject to tolerances)

MODEL	CAP	A(mm)	B(mm)	C(mm)	D(mm)	φ(mm)	H(mm)	Material
GWD400-1	1t	245	112	37	190	43	335	Aluminum
GWD400-2	2t	260	123	37	195	51	365	Aluminum
GWD400-3	3t	260	123	37	195	51	365	Aluminum
GWD400-5	5t	285	123	57	210	58	405	Aluminum
GWD400-10	10t	320	120	57	230	92	535	Alloy Steel
GWD400-20	20t	375	128	74	260	127	660	Alloy Steel
GWD400-30	30	420	138	82	280	146	740	Alloy Steel
GWD400-50	50t	465	150	104	305	184	930	Alloy Steel
GWD400-100	100t	570	190	132	366	229	1230	Alloy Steel
GWD400-200	200t	720	265	183	440	280	1362	Alloy Steel

WEIGHTS

Model	GWD400-1	GWD400-2	GWD400-3	GWD400-5	GWD400-10
Unit Weight(kg)	1.6	2.1	2.1	2.7	10.4
Weight with shackles(kg)	3.1	4.6	4.6	6.3	24.8
Model	GWD400-20	GWD400-30	GWD400-50	GWD400-100	GWD400-200
Unit Weight(kg)	17.8	25	39	81	210
Weight with shackles(kg)	48.6	73	128	321	776

5. Power supply

Dynamometer battery: “LR6(AA)”size alkaline batteries. 1.5VX3

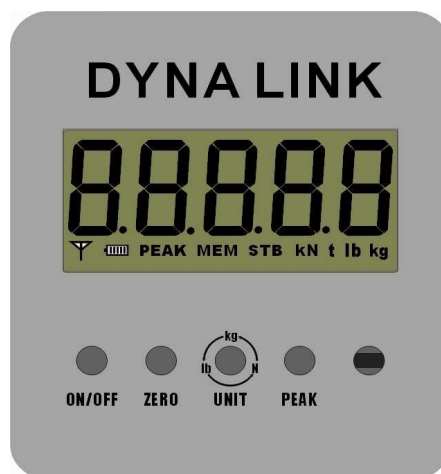
Remote controller battery: “LR6(AAA)”size alkaline batteries. 1.5VX2

Current: the dynamometer average current is about DC 35mA, 3pcs new batteries can be used for about 40hours under continous working.

Low battery warning: When the digits flashes, it means the battery needs to be replaced. The dynamometer will power off automatically after one hour without operation.

CHAPTER 2

DISPLAY AND KEYS



1. LCD DISPLAY

25mm (1”) 5digits LCD with backlight

2. SIGNAL ON DISPLAY

-  : Wireless signal, used for wireless dynamometer
-  : Battery Voltage,  : Full,  : Low,  : Empty
- PEAK**: Current value is Peak Hold value(maximum value).
- MEM**: Appear one time when Parameter or calibration value storage. long time appearance means current value is Accumulation data.
- STB**: Stable Status.
- kN**: “kilonewton”, **N**: “Newton”. Tare status “N” will flash.
- t** : “ton”.
- lb** : “pound”.
- kg** : “kilogram”.

3. KEY

a. ON/OFF

1. Press ON/OFF one second, the dynamometer turn on.
2. When turn on, Press ON/OFF one second, the dynamometer turn off.

b. ZERO

When dynamometer turn on, generally it displays [0], if display small digits when no load, press this key to get zero reading.

c. UNIT

Press this key, the unit on LCD will display circlely as follows: “kg”→ “lb” → “N” → “kN”→ “kg” .

d. PEAK

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.

4. REMOTE CONTROLLER



Press any key on the remote controller, the indicator on the controller will flash.

Key function:

1. 【ZERO】

- a. In weighing status, when dynamometer switch on with no load on the hook, but there are small digits on screen, press this key to obtain zero reading.
- b. In parameter setting and calibration process, it used for set value up

2. 【TARE】

- a. In weighing status, the function is equal to TARE on front panel
- b. In parameter setting and calibration process, it used for move digit (the digit choose flash)

3. 【SHIFT】

- a. In weighing situation, used for function shift, or used with other key to more function.
- b. In parameter setting and calibration process, it used for confirm setting.

4. 【CLEAR】

- a. In weighing status, it used to clear accumulation.
- b. In parameter setting and calibration process, it used for set value down.

5. 【ACCU】

It used for accumulation function, details see Chapter3-5.

6. 【F1】

Function Key, used with 【F2】 together, Press 【F1】 solely, it will regulate brightness of LED.

7. 【F2】

Function Key, used with 【F1】 together.

8. 【HOLD】

It used for hold function, details see Chapter3-4.

9. 【OFF】

Turn off the dynamometer

CHAPTER 3 OPERATION GUIDE

() express key on dynamometer

【 】 express key on remote controller

〔 〕 express contents on display

1 TURN ON/OFF

◆TURN ON

Press ON/OFF one second, the screen display as follows:

OPERATION	DISPLAY	ILLUSTRATION
(ON/OFF)	〔 88888 〕	Display two times
	〔 Ert 〕	Display two times
	〔 u=3.98 〕	Current software version
	〔 XXXXX 〕	Display capacity
	〔 U 4.XX 〕	Display current battery voltage
	〔 ----- 〕	Waiting stable
	〔 0 〕	“STB” light on, you can operate now

◆TURN OFF

1	Press (ON/OFF) one second
2	Press 【OFF】 one second
3	Choose turn off method when parameter setting, the dynamometer will display 〔 - 〕 after no operation at 15minutes to save power, and it will turn off automatically after 60minutes.

2 ZERO

	OPERATION	DISPLAY	When dynamometer turn on, generally dynamometer displays 〔 0 〕 ,if display small digits when no load, press this key.
1	Press (ZERO)	〔 0 〕	
2	Press 【ZERO】	〔 0 〕	

3 TARE

OPERATION	DISPLAY	After turn on, hanging tare weight such as sling, cable at first, after “STB” signal on, press this key, , then the dynamometer will display net weight of the goods.
Press【TARE】	〔 0 〕	

4 HOLD

OPERATION	ILLUSTRATION
Press 【HOLD】	Hold the weight reading no matter load change
Press 【HOLD】 again	Return to normal weighing status

5 ACCUMULATION

OPERATION	DISPLAY	ILLUSTRATION
Press 【ACCU】	〔No***〕	Current accumulation time
	〔H****〕	Front four digits of total value
	〔L****〕	Rear four digits of total value

After display above contents two times, the dynamometer will return automatically, you also can press **【SHIFT】** to return.

6 ACCUMULATION SEARCH

OPERATION	DISPLAY	ILLUSTRATION
【SHIFT】【ACCU】	〔No.***〕	Current accumulation time
	〔*****〕	Current weight reading
	〔H****〕	Front four digits of total value
	〔L****〕	Rear four digits of total value
【SHIFT】	〔*****〕	Return

Press **【TARE】** 和 **【ZERO】** can check different times weight and accumulation.

7 ACCUMULATION CLEAR

OPERATION	DISPLAY	ILLUSTRATION
【CLEAR】	〔 CLr 〕	Ask if you want to clear or not
【CLEAR】	〔noCLr〕	Cancel clear
【SHIFT】	〔88888〕	Confirm clear

8 BATTERY VOLTAGE

OPERATION	DISPLAY	ILLUSTRATION
【SHIFT】【F1】	〔U 4.**〕	Display current battery voltage
【SHIFT】		Return

The voltage should be between 3.5 and 4.7, if below than 3.5, the digits flash, you need to Replace the battery

9 PEAK

OPERATION	ILLUSTRATION
Press 【PEAK】 or (PEAK)	Hold the Maximum weight reading when weight changing
Press 【HOLD】 or (PEAK)	Return to normal weighing status

10 ZERO POINT

OPERATION	ILLUSTRATION
【SHIFT】【ZERO】	Display current zero point

11 UNIT

OPERATION	ILLUSTRATION
Press (UNIT)	Unit switch, Un=0: kg, “kg” signal on, Un=1: lb, “lb” signal on, Un=2: N, “N” signal on, Un=3: KN, “KN” signal on

12 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 【F1】 and 【F2】 at same time 3seconds	〔P0000〕	Second digit flash, use function key to move digit, set value.
Press 【TARE】 【ZERO】 【CLEAR】	〔P8888〕	Input 8888, 8888 is parameter setting password
Press 【SHIFT】	〔SETUP〕	Confirm, enter parameter setting program
Press 【TARE】	〔SP1 〕	Press 【TARE】 until it display SP1, Set point 1
Press 【TARE】	〔1 OFF〕	New dynamometer, it display 1 OFF, if parameter set, it display set value.
Press 【ZERO】 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 【TARE】 to confirm	〔02000〕	New dynamometer it display 02000, if parameter set, the screen display set value.
Press 【ZERO】 and 【ACCU】 to change value	〔01000〕	Set "1 HI" or "1 LO" Value. e.g. 1000kg
Press 【TARE】	〔 SP2〕	Set point 2
Press 【TARE】	〔2 OFF〕	New dynamometer, it display 2 OFF, if parameter set, it display set value.
Press 【ZERO】 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 【TARE】	〔01200〕	New dynamometer it display 01200, if parameter set, the screen display set value.
Press 【ZERO】 and 【ACCU】 to change value	〔03000〕	Set "2 LO" or "2 HI" Value. e.g. 3000kg

If you needn't to set point, you only need to press **【TARE】** until it display next function 〔g〕

CHAPTER 4 PARAMETER SETTING & CALIBRATION

You need to use remote controller to operate parameter setting and calibration

Key function:

KEY	FUNCTION
【TARE】	Move digit(the digit choose flash)
【ZERO】	Set value up
【CLEAR】	Set value down
【SHIFT】	Confirm, exit

1. PARAMETER SETTING

OPERATION	DISPLAY	ILLUSTRATION
Press ON/OFF 1second	[[0]]	Turn on dynamometer
Press 【F1】 and 【F2】 at same time 3seconds	[[P0000]]	Second digit flash, use function key to move digit, set value.
Press 【TARE】 【ZERO】 【CLEAR】	[[P8888]]	Input 8888, 8888 is parameter setting password
Press 【SHIFT】	[[SETUP]]	Confirm, enter parameter setting program
Press 【TARE】	[[FS=06]]	New dynamometer, the screen display FS=06, if dynamometer calibrated, the screen display capacity.
Press 【ZERO】 or 【CLEAR】 to choose	[[FS=05]]	Choose capacity, the screen display 02/03/05/06/10/15/20/30/50/60/75 circularly, take cap:5000kg as example, choose FS=05
Press 【TARE】 confirm	[[Id=05]]	New dynamometer, the screen display Id=05, if dynamometer calibrated, the screen display calibrated division.
Press 【ZERO】 or 【CLEAR】 to choose	[[Id=02]]	Choose division, the screen display 01/02/05/10/20 circularly. 5000kg dynamometer division is 2kg, so choose Id=02
	[[Pt=0]]	New dynamometer, the screen display Pt=0, if dynamometer calibrated, the screen display calibrated decimal position
Press 【ZERO】 or 【CLEAR】 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 dynamometer choose Pt=0
Press 【TARE】 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 【TARE】 confirm	[[Cd=11]]	New dynamometer, the screen display Cd=11, if dynamometer calibrated, the screen display calibrated value.

Press 【 ZERO 】 or 【 CLEAR 】 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, after calibration, set Cd=11 again, generally choose Cd==12 when ex-stock..
Press 【 TARE 】 confirm	〔LL=2〕	New dynamometer , the screen display LL=2, if dynamometer calibrated , the screen display calibrated value.
Press 【 ZERO 】 or 【 CLEAR 】 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 again, generally choose LL=1 when ex-stock..
Press 【 TARE 】 confirm	〔Un=0〕	New dynamometer , the screen display Un=0, if dynamometer calibrated , the screen display calibrated unit.
Press 【 ZERO 】 or 【 CLEAR 】 to choose	〔Un=0〕	Choose unit, Un=0: kg, Un=1: lb, Un=2: N, Un=3: KN. Generally, choose Un=0 when ex-stock.
Press 【 TARE 】 confirm	〔OFF 1〕	New dynamometer , the screen display OFF 1, if dynamometer calibrated , the screen display calibrated value.
Press 【 ZERO 】 or 【 CLEAR 】 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, choose OFF=2 when ex-stock.
Press 【 TARE 】 confirm	〔SP1 〕	Set point 1
Press 【 TARE 】	〔1 OFF〕	New dynamometer, it display 1 OFF, if parameter set, it display set value.
Press 【 ZERO 】 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 【 TARE 】 to confirm	〔02000〕	New dynamometer it display 02000, if parameter set, the screen display set value.
Press 【 ZERO 】 and 【 ACCU 】 to change value	〔01000〕	Set “1 HI” or “1 LO” Value. e.g. 1000kg
Press 【 TARE 】	〔 SP2 〕	Set point 2
Press 【 TARE 】	〔2 OFF〕	New dynamometer, it display 2 OFF, if parameter set, it display set value.

Press 【ZERO】 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 【TARE】	〔 01200 〕	New dynamometer it display 01200, if parameter set, the screen display set value.
Press 【 ZERO 】 and 【ACCU】 to change value	〔 03000 〕	Set "2 LO" or "2 HI" Value. e.g. 3000kg
Press 【TARE】 confirm	〔 g 〕	Acceleration of gravity
Press 【TARE】 , Press 【ZERO】 and 【ACCU】 to change value	〔 9.7930 〕	New dynamometer, it display 9.7930, it our Everight company local g, if dynamometer calibrated, it display calibrated value. user can change it according to local area g value, the value range is 9.783-9.832,
Press 【SHIFT】	〔 End 〕 〔 0 〕	Confirm above parameter setting, Exit parameter setting program.

If you find mis-operation before end, Press **【TARE】**, the screen will display parameter circularly, correct error, and if you find mis-operation after parameter setting program finished, you have to enter parameter setting program again to correct.

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

2. calibration

OPERATION	DISPLAY	ILLUSTRATION
	〔 0 〕	Take Cap:5000kg dynamometer as example, Pay attention that the screen display 0 after hanging tare weight, you can hang tare weight at first, then turn on.
Press 【F1】 and 【F2】 at same time 3seconds	〔 P0000 〕	Second digit flash, use function key to move digit, set value.
Press 【 TARE 】 【ZERO】 【CLEAR】	〔 P1111 〕	Input 1111, 1111 is calibration password

Press 【SHIFT】	〔SCALE〕	Confirm, into calibration program
Press 【SHIFT】	〔CALSP〕	Zero point calibration, wait until STB light on
Press 【SHIFT】	〔LoAd1〕	First load calibration
Hanging on first load e.g.1000kg		First load must exceed 20% capacity, Waiting until STB light on.
Press 【TARE】 【ZERO】 【CLEAR】	〔01000〕	Input 1000, wait until STB light on.
Press 【SHIFT】	〔LoAd2〕	Second load calibration
Hanging on second load e.g.3000kg		Second load must exceed Load 1+20% capacity, Waiting until STB light on.
Press 【SHIFT】	〔02000〕	Mention you Load2 must exceed 2000kg
Press 【TARE】 【ZERO】 【CLEAR】	〔03000〕	Input actual weight 3000, waiting stable
Press 【SHIFT】	〔LoAd3〕	Third load calibration
Hanging on third load e.g.5000kg		Third load must exceed Load 2+20% capacity, Waiting until STB light on.
Press 【SHIFT】	〔04000〕	Mention you Load3 must exceed 4000kg .
Press 【TARE】 【ZERO】 【CLEAR】	〔05000〕	Input actual weight 5000kg. wait until STB light on.
Press 【SHIFT】	〔----- -〕	Waiting stable
	〔 -oL- 〕	
	〔 End 〕	Calibration end
	〔5000.0〕	Display calibrated capacity , sometimes it display 4999.5, 5000.5
Press 【TARE】	〔05000〕	Move decimal position
Put down weight	〔 0 〕	Check zero point, it display 0, and STB, ZERO light on.

1. First load: **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, you only need to press **【TARE】** to move decimal position. Generally, we strong 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 **【OFF】** 2 times, then press **【TARE】** to move decimal position. Calibration finish.

CHAPTER 5 DISPLAY ILLUSTRATION

DISPLAY	ILLUSTRATION	REMARK
〔 CALSP 〕	Enter zero point calibration	
〔 SCALE 〕	Enter calibration	
〔 SETUP 〕	Enter parameter setting	
〔 UAdJ 〕	Enter voltage calibration	
〔 LoAd1 〕	First calibration point	LoAd1<LoAd2<LoAd3
〔 LoAd2 〕	Second calibration point	
〔 LoAd3 〕	Third calibration point	
〔 ——— 〕	Exceed high limit	Tare weight can't exceed full capacity
〔 ——— 〕	Exceed low limit	Tare weight can't be negative
〔 ---- 〕	Waiting	
〔 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 weight	Total weight=front four digit + rare four digit
〔 L**** 〕	Rare four digit of accumulated weight	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	
〔 SHIFt 〕	Switch	
〔 ——— 〕	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
〔 -oL- 〕	Overload warning	Tare + Net weight exceed full capacity + 9e
〔 -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 when put on	Discharged battery	Recharge
	Defective battery	Replace
	Defective button	Requires authorized service
	Power button not properly depressed	Press ON/OFF in three seconds
Digits flash	Low battery	Recharge the battery
Recharge indicator light can't turn on	Battery charger damaged	Check the battery charger
	The Battery charger is not plugged properly	Insert plug again
Display doesn't respond to weight changes	Faulty load cell or PCB	Requires authorized service
	Load cell cable damaged	Check and replace load cell
	Out of calibration	Check calibration
Display experiences excessive Zero drift between weighment	Scale electronics do not stabilize after turning on	After turning on, heating 3-5 minutes.
	Put the scale on ground for too long time	Scale should be hung
Displayed weight shows large error	Scale not Zeroed before applying weight	Depress ZERO before applying weight
	Requires recalibration	See calibration
	Kg/lb wrong selection	See operation
Battery can't recharge	Battery damaged	Replace battery
	Outlet damaged	Replace the outlet
Remote distance shortened	Receiver window is dirty	Check and clean
	Remote Control's battery is low	Replace Remote Control's battery.