Connections

1. Load Cell connections : (DB-09 Female)

Pin no.   1,2   3   4,5   6,7   8,9

       EXC+   GND   EXC-   SIG+   SIG-

2. RS232C connections : (DB-09 male)

Pin no.   2   5   others

      TXD   GND   NC

Error message

Symptom	Cause	Solution
⌐ - - - - ¬	*Over load :*	
	* Weighing range exceed	> Unload scale or reduce preload
∟ - - - - ⌐	*Under load :*	
	* Weighing pan not in place	> Ensure the weighing pan is correctly installed and surrounding parts are not touching
	* Weighing range zero below	> Set scale to zero
	* Contact between weighing	> Apply pre-load
- OL -	*Zeroing not possible :*	
	* Zeroing outside the zero setting range	> Ensure that zeroing is performed in the admissible range (20% of Cap.)

PS-30
Weighing Indicator

Operation Manual

PS30_01_SR

You have purchased a quality precision weighing instrument that requires handling with care.
Read entire contents of this *Operation Manual* prior to operating your new instrument.

Disclaimer Notice

Calibrate your instrument using reference weights of the appropriate tolerance (class).
An instrument can be no more accurate than the standard to which it has been compared.
For assistance in the selection of reference weights, please contact the factory.

Caution: Changes or modifications not expressly approved by the manufacturer
could void the user's authority to operate this equipment.

Introduction

Thank you for choosing one of our instruments. Your instrument is designed and
manufactured to the most rigorous standards in order to give you years of service.
First, check the contents of the shipping carton. You should find the following :

* Manual   * Instrument   * AC Adapter

Next, follow the instructions for installing your instrument.

Now you are ready to begin using your instrument. To take advantage of its many features,
carefully read your operating manual.
It contains step-by-step procedures, examples, and other vital information.

Warning: Use of this product in a manner not specified by the manufacturer may impair any
safety protection provided by the equipment!

Calibration

In step of **Weight calibrate**, press ✳ key and
Display shows *Offset value to be 5000 ~ 50000*

| 2 7.7.7.7. |

If it's not in this range *Sw1* to be adjust.

1. Press →0← key to zero display.

| 0 |

2. Put the **calibrating weight** on the platform.

| 1 7.7.7.7.7. |

   Span value to be 50000 ~ 150000 at full capacity
   The lower calibrating weights are available.
   such as 1/4,1/3 or 1/2 capacity.

3. The calibrating number can be changeable by the key ‹ , ∧

| 7.7.7.7. |
| 5._ _ _ _ _ |

   Press the ✳ key, the **SPAN** setting to be done.

4. The calibrating number can be changeable by the key ‹ , ∧

| 7.7.7.7. |

   Calibrating number =FULL CAPACITY+OVER RANGE
   The OVER RANGE can be 9d or 5% of full capacity.
   Press the ✳ key, the **CAPACITY** setting to be done.

| C._ _ _ _ _ |

5. After finish the weight calibration, make the *Jp3 switch ON*.
   Now you are ready to weigh.

RS232C Specifications

1. **Baud rate :** 2400/9600 selectable
   Parity :   none
   **Data bit :**   8
   Stop bit :   1

2. **Format**

Number :	1	2	3	4	5	6	7	8	9	10	11	12	13
Caractors :	SP/-	X	X	X	X	X	X	X	SP	k/l	g/b	CR	LF

Calibration

Please have the jumper _Jp3 switch OFF,_ before you start to calibrate weight.

Press and hold any key and then press ⟨ON/⊙⟩ , and display shows ⟦ CAL ⟧

Press ✱ key goes to **weight calibrate sequence**.

Press ⟨<⟩ key for **quick scrolling check**

Press ⟨∧⟩ key for **parameter selecting** and

Press ✱ key for **setting and goes to next step**. The programme sequence as follows:

A. Units

Unit 0	lb
Unit 1	kg
Unit 2	kg/lb

B. Grad size

d = 0.001
d = 0.002
d = 0.005
d = 0.01
d = 0.02
d = 0.05
d = 0.1
d = 0.2
d = 0.5
d = 1
d = 2
d = 5

C. Auto zero tracking
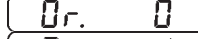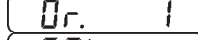
A0 0	Off
A0 0.5	0.5 divisions
A0 1	1 division
A0 2	2 divisions

D. Zero range

0r. 0	Re-zero range 100% of Cap.
0r. 1	Re-zero range 2% of Cap.

E. Weighit calibrate

CAL =

PS 30

MD →0← NET 🔋 lb kg

⟨ON/⊙⟩ ⟨OFF⟩ ⟨U⟩ ⟨→0←⟩ ⟨→T⟩

✱ < ∧ CHARGE ◌

Function keys

⟨ON/⊙⟩
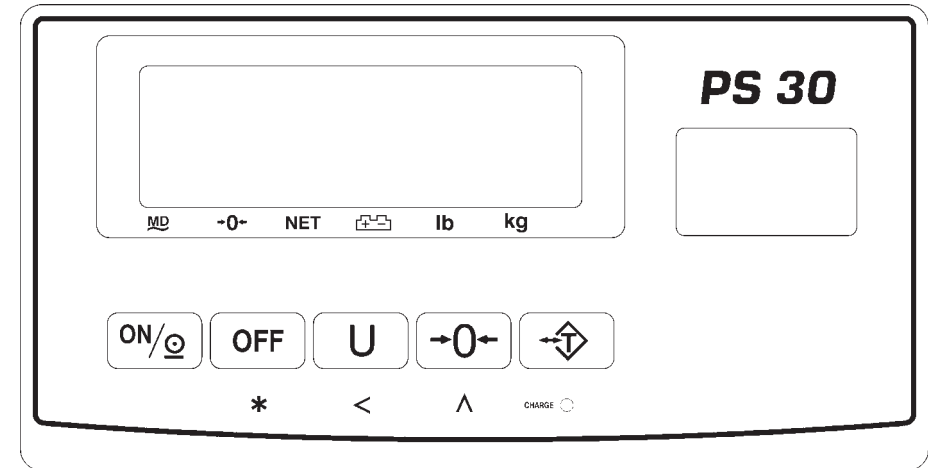
a. Turns instrument **On**.
b. The ⊙ to be a print out key.

⟨OFF⟩

Turns instrument **Off**.

⟨→0←⟩

Captures a new center of zero.

⟨→T⟩

Reduce gross weight on pan as tare weight.

⟨U⟩

Units select kg / lb.

⟨<⟩

The < to be a function of moves the flashing cursor digit to the left.

⟨∧⟩

The ∧ to be a function of increases the flashing cursor by one digit.

✱

Setting.

Operation

A. Getting Started

1. Ensure nothing is on the platform and turn the instrument ON.
2. Turn the instrument ON by pressing the [ON/○] key.
3. The display will run through a self diagnostic digit check *8.8.8.8.8.8.*
   and will then indicate zero.
4. **Allow the instrument to warm-up for 30 minutes.**

B. Weighing units

1. Should you wish to change the weighing units press the [U] key..
2. The small arrow in the display will alternately between **kg** and **lb**.
3. Switch ON and OFF will not affect the programmed units.

C. Taring (zeroing)

All models have taring (zeroing) capabilities up to their total weight capacity.
To weigh a sample in its container with the display showing the weight of the sample
use the following ZERO (tare) procedure.

1. Place sample container on pan and then press the [⊕] key and
   indicator will lights at **NET**.
2. Now place sample in its container.
3. When the scale is stable, the display shows the weight of the sample.

D. Battery charge

Build in 6V Rechargeable-battery.
Battery operating limited at 5.5V and indicator will lights at [+−] .
In this time the instrument should be charging.

E. Motion detect

When weighing unstable, the indicator will lights at MD .
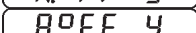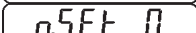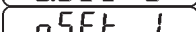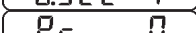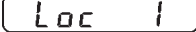
Programme

Press and hold any key and then press [ON/○] , and display shows   [CAL]
Press [ON/○] key goes to **programme sequence**.
Press [U] key for **parameter selecting** and
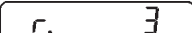Press [ON/○] key for **setting and goes to next step**. The programme sequence as follows:

Step	Display	Meaning
A. Auto power off	A.OFF 0	None
	A.OFF 1	5 minutes after
	A.OFF 2	10 minutes after
	A.OFF 3	20 minutes after
	A.OFF 4	30 minutes after
B. Backlit	bL 0	None
	bL 1	Active
	bL 2	Auto lighting while loading
C. Zero setting	o.SEt 0	Initial zero auto
	o.SEt 1	Initial zero memorized
D. RS 232 output	Pr 0	None
	Pr 1	Manual
	Pr 2	Auto
	Pr 3	Continuously
E. Baud rate	br 2400	Baud rate 2400
	br 9600	Baud rate 9600
F. Weighing lock	Loc 0	None
	Loc 1	Enable
	Loc 2	Lock range adjustable

In step [Loc 2] , the display will shows lock range [r. ?.?.?]
The range can be changeable by the key (<) , (∧)   [r. ?.?]
Press the (✱) key, the lock range setting to be done.   [r.-----]

For example:

[r. 3] It means the lock range is +/- 3
If the movement is between 97 and 103, then the scale will lock on,
and display the average of 100 and sounds beep.