

## Load cell connections

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

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

EXC+ GND EXC- SIG+ SIG-

## RS232C Specifications

### 1. Baud rate : 2400/9600 selectable

Parity : none

Data bit : 8

Stop bit : 1

### 2. RS232C connections : ( DB-09 male )

Pin no. 2 5 others

TXD GND NC

### 2. Data format

#### a. Accumulating type

ID : 123456  
DATA: 01/01/02  
S/N WEIGHT/kgTOTAL

|     |      |      |
|-----|------|------|
| 001 | 10.0 | 10.0 |
| 002 | 5.5  | 15.5 |
| 003 | 2.8  | 18.3 |
| 004 | 15.5 | 33.8 |
| 005 | 5.0  | 38.8 |

005 TOTAL: 38.8

Press **0** then **⊙** key  
to print total accumulation.

#### b. Stick type

ID : 123456  
DATE: 01/01/02  
5.5 kg

ID : 123456  
DATE: 01/01/02  
150 kg

ID : 123456  
DATE: 01/01/02  
75.5 kg

#### c. Continuously

0.0 kg  
1.1 kg  
2.2 kg  
3.3 kg  
3.5 kg  
4.0 kg  
5.0 kg  
7.0 kg  
8.0 kg  
8.5 kg  
9.9 kg

# SNOWREX

# Weighing Indicator

## Model: PS plus



You have purchased a quality precision weighing instrument that requires handling with care. Read entire contents of this **Operating 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.

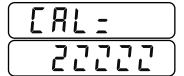
It contains step-by-step procedures, examples, and other vital information.

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

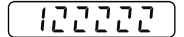
Display shows:



1. Press  key to zero display.







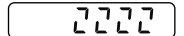
2. Put the **calibrating weight** on the platform.



**Span value to be 50000 ~ 150000 at full capacity**

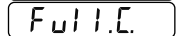
The lower calibrating weights are available. such as 1/4,1/3 or 1/2 capacity.

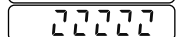
3. The calibrating number can be setting by the numerical keys - and , then press the  key, the **SPAN** setting to be done.





4. Maximum Capacity can be setting by the numerical keys, **Maximum Capacity =FULL CAPACITY+OVER RANGE**



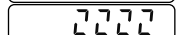


**The OVER RANGE can be 9d or 5% of full capacity.**

Press the  key, the **CAPACITY** setting to be done.


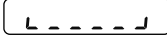
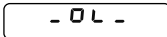


5. After finish the weight calibration, make the **Jp3 switch ON**.



Now you are ready to weigh.

## Error message

| Symptom   | Cause   | Solution  |
|---|---|---|
|  | <b>Over load :</b><br>* Weighing range exceed                             | > Unload scale or reduce preload  |
|  | <b>Under load :</b><br>* 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  |
|  | <b>Zeroing not possible :</b><br>* Zeroing outside the zero setting range | > Ensure that zeroing is performed in the admissible range ( 20% of Cap.)               |

## 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 **F1** key goes to **weight calibrate procedure and for sequences quick review.**

Press **F2** key for **sequences through the available parameters.**

Press **Set** key for **data stored and advances to next step.**

The programme sequence as follows:

### A. Units

Unit 0

lb

Unit 1

kg

Unit 2

kg/lb

### B. Grad size

d= .001

d= .002

d= .005

d= .01

d= .02

d= .05

d= .1

d= .2

d= .5

d= 1

d= 2

d= 5

### C. Auto zero tracking

AO 0

Off

AO 0.5

0.5 divisions

AO 1

1 division

AO 2

2 divisions

### D. Re-zero range

Or. 0

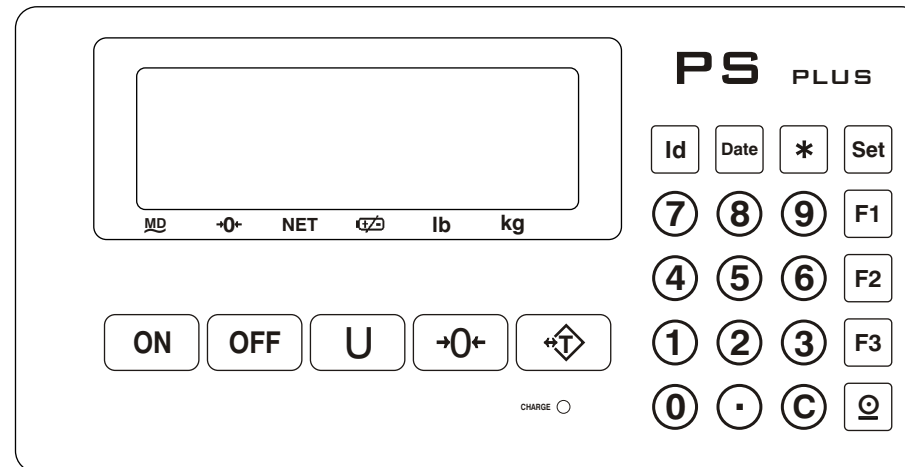
Re-zero range 100% of Cap.

Or. 1

Re-zero range 2% of Cap.

### E. Weight calibrate

CAL=



## Function keys

ON

Turns instrument **On**.

OFF

Turns instrument **Off**.

→0←

Captures a new center of zero.

◊

Reduce gross weight on pan as tare weight.

U

Units select kg / lb.

Id

For ID number setting

Date

For DATE setting

\*

Optional

Set

Setting key

Ⓞ

The Ⓞ to be a print out key.

F1 F2 F3

Function keys

0 ~ 9

Numerical key

.

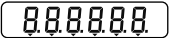
Decimal point

C

Clear entry key

## 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.  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. Motion detect

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

## Programme

Press and hold any key and then press **ON**, and display will shows 

Press **\*** key goes to **programme procedure and for sequences quick review**.

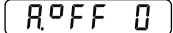
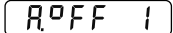

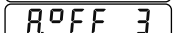
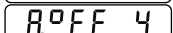
Press **Date** key for **sequences through the available parameters**.

Press **Set** key for **data stored and advances to next step**.

The programme sequence as follows:




## Programme

### A. Auto power off

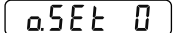

None  
 5 minutes after  
 10 minutes after  
 20 minutes after  
 30 minutes after

### B. Backlit

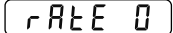
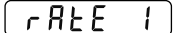
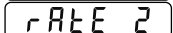
None  
 Active  
 Auto lighting while loading

### C. Zero setting



Initial zero auto  
 Initial zero memorized

### D. Display rate


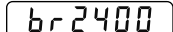
Fast  
 Medium  
 Low

### E. RS 232 output



None  
 Enable

#### 1. Baud rate

Baud rate 9600  
 Baud rate 2400

#### 2. ID #

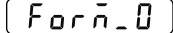
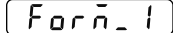
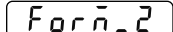
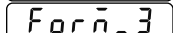
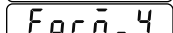
None  
 Enable

#### 3. Date


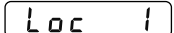

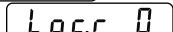
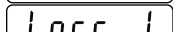
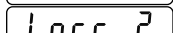

None  
 Enable

#### 4. Format

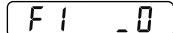

Accumulating type manual  
 Accumulating type auto  
 Stick type manual  
 Stick type auto  
 Continuously

### F. Weighing lock

None  
 Lock up once  
 Lock up with range  
 1d  
 2d  
 3d

### G. F1

None  
 Function 1 enable