

Price Computing Scale – GP

User Manual



**SNOWREX INTERNATIONAL
CO., LTD.**
SRGP20100415

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Specification

Basic specification

Display Digit	LCD, height 17mm, 5/6/6(Weigh/Unit Price/ Total Price)
Pan Size(mm)	280 x 200 (WxL)
Dimensions(mm)	280x330X110(WxLxH)
Net Weight(kg)	3.6kg(without pillar), 5.2kg(with pillar)
Operating Temperature	0° C to +40° C
Relative Humidity	Less than 85%
Power	DC9V / 500mA, AC adapter; Built in 6V Rechargeable Battery
Interface	RS-232C (optional)

Series specification(EC TYPE/OIML APPROVED)

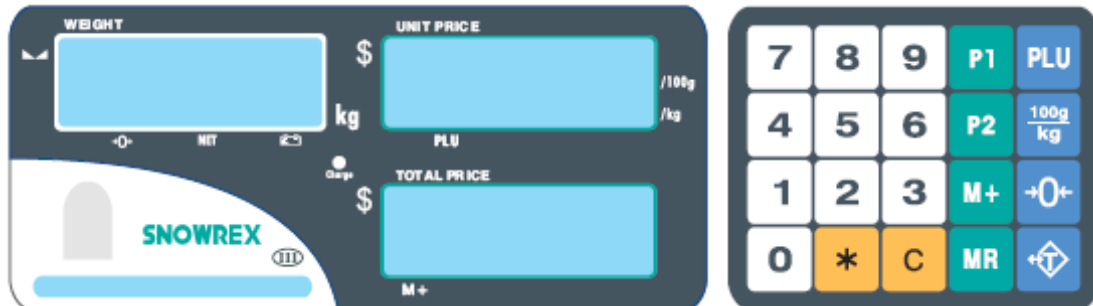
Model	GP-6D	GP-15D	GP-30D
Max₁ / Max₂=	3kg / 6kg	6kg / 15kg	15kg / 30kg
Min₁ / Min₂=	20g / 3kg	40g / 6kg	100g / 15kg
e₁ / e₂=	1g / 2g	2g / 5g	5g / 10g
Accuracy	1/3000(Dual)	1/3000(Dual)	1/3000(Dual)

Series specification(NON-APPROVED)

Model	GP-3H	GP-6H	GP-15H	GP-30H
Max. Capacity	3kg	6kg	15kg	30kg
d =	0.5g	1g	2g	5g
Accuracy	1/6000	1/6000	1/7500	1/6000

Operation

LCD display & Keypad



Key Functions



These keys are used to enter the Unit Price.



PLU Keys.



This key is used for accumulating weight and total price.



This key is used for showing the totalization record.



This key is used for PLU setting.



This key is used for Unit Price setting in 100g or kg.



This key is used for capture a new center of zero.



This key is used for subtract a tare weight, or confirm the setting.



This key is used for clear the unit price, or cycle the selection.



Long pressed: used for backlit switch in "None, Active, or Auto lighting while loading" sequences as the programme setting on the "Manual" mode.

Short pressed: used for printing manually only for connecting to LP-50 printer

Normal unit price input

In weighing mode, press the white number keys to change the unit price. Total price will be automatically calculated when there is weight on the scale.


PLU Data setting

1. Use the white number keys to set the Unit Price.
2. Press the preset PLU key (P1 or P2) to select the desired PLU memory.
3. Press PLU to save your settings.
 - If the input isn't completed within 30 seconds, the setting will be suspended and return to normal weighing mode.



Loading PLU


In weighing mode, press the PLU key to recall the unit price data.

Modify PLU








1. Press the white keys to enter the Unit Price.
2. Select the PLU you want to modify.
3. Press  to save your setting. The old PLU data is overwritten and the new price has been updated.

Operation of M+




1. Load the weight on the scale and input the unit price.
2. Press  to accumulate the weighing result in memory. When a beep sounds, M+ indicator appears on the LCD. "≡01≡" appears in the Weight column to show the first accumulation is recorded.
3. Clear the load on the weighing pan.
4. Input the unit price and place another load on the weighing pan. Then press . After a beep sound, "≡02≡" appears in the weight column, indicating second data has been recorded.

- After each recording, if the load on the weighing pan is not cleared, pressing  will result in the long beep and the scale will not be able to record the next weighing result.
- The scale can save up to 199 weighing results.



Operation of MR

1. In weighing mode, press  and the Unit Price column will be cleared. The Weight column shows -1- as number of accumulation, or $\equiv xx \equiv$ as total number of accumulated additions. The total price column shows the total price or total accumulated price.
 2. Press  to toggle the weighing results and the total accumulation is displayed when all weighing results are shown.
 3. When you press  the first time, the first accumulation is displayed. -01- and the weight data is flashing in the Weight column, and the Total Price column shows the Accumulated Price.
 4. Pressing  the second time, the accumulation is displayed. -02- and the weight data is flashing in the Weight column and the Total Price column shows the Accumulated Price. Press  again to cycle through all the data on memory.
 5. Press  again, and when $\equiv xx \equiv$ is displayed in the Weight column, it indicates the total number of accumulations. The total accumulated price is displayed in the Total Price column.
 6. When the total is shown, pressing  will clear all the data on memory.
- Pressing 0~9 numerical keys will exit this mode without clearing the recorded data.

Setting and Calibration

1. Press and hold any key while powering on the scale ON. **CAL** is shown on the LCD display.
2. Press  to cycle through the calibration menus: CAL 1 and CAL 2.
 - Select CAL 1, press  to enter General Setting menu.
 - Select CAL 2, press  to enter the Calibration Procedure. (*Need to remove the jumper, JP3, from the PCB first. Put JP3 back when the calibration is complete.*)

General setting (CAL 1)

Press  to toggle amount the options, and press  to confirm your setting.

1. Aut.oFF– Auto shutdown setting

Display	Explanation
Aut.oFF 0	Disable shutdown function.
Aut.oFF 1	If no operation, shutdown the scale in 5 minutes.
Aut.oFF 2	If no operation, shutdown the scale in 10 minutes.
Aut.oFF 3	If no operation, shutdown the scale in 20 minutes.
Aut.oFF 4	If no operation, shutdown the scale in 30 minutes.

2. BL Backlight setting

Display	Explanation
b.LigHt 0	Shut down backlight
b.LigHt 1	Turn on backlight

b.LigHt 2	Automatic backlight
b.LigHt 3	Manual

3. Tare function

Display	Explanation
tA 0	One time taring
tA 1	Multiple taring is allowed.

4. RS-232 Output

Display	Explanation
Pr LP-50	Parity: 8-N-1, LP-50 printer format (Baud rate must be 9600)
Pr PC	Parity: 8-N-1, connecting to PC



5. Baud Rate

Display	Descriptions
br 2400	Set the baud rate to 2400
br 4800	Set the baud rate to 4800
br 9600	Set the baud rate to 9600

Calibration Procedure (CAL 2)

Notice: This section can only be operated by engineers.

Please have the jumper JP3 switch OFF before you start the calibration process.

In Calibration procedure, press  to toggle among the options, and press  to save the setting.

1. SEL maximum capacity

Display	Maximum Capacity
LoAd 06	6 kg
LoAd 15	15 kg
LoAd 30	30 kg

2. Decimal points

Display	Descriptions
dP 0	Disable decimal points.
dP 0.0	Set the price display to 1 decimal point.
dP 0.00	Set the price display to 2 decimal points.


3. Span Calibration


Display	Explanation
SPAN	The Weight column and the Unit Price column display the Span Value.

1. Press  key.

2. Press  key.




3. Place the calibration weight on the pan.

When the scale is stable, press  key to cycle through a list of permissible weights.

4. Remove the calibration weight from the pan and press  key. The instrument will restart automatically.

- **Put the JP3 jumper back after calibration is completed.**

Troubleshooting

Problem	Possible Causes	Solutions
No Display	<ul style="list-style-type: none"> ● AC adaptor is broken. ● Main board is broken. 	<ul style="list-style-type: none"> ● Replace the AC adapter ● Replace the main board.
Certain figures on the display is missing	Main board is broken	<ul style="list-style-type: none"> ● Replace the main board. ● Check if the LCD is soldered well.
Zero drift or span drift is over the limit	It is directly exposed to sunlight or located close to extreme temperature such as air-conditioner or heater	Move the instrument to a mild temperature installation site.
Poor repeatability of measured values. Large fluctuation of the displayed values	<ul style="list-style-type: none"> ● Wind and vibration ● Load cell is touch something ● Dirt or dust on the load cell ● Main board is damaged 	<ul style="list-style-type: none"> ● Change the installation site. ● Check the load cell and the wire lead assembly. ● Clean the dirt or dust on the load cell. ● Replace the main board.
Key input is not possible	Keypad was not connected well. Main board is damaged.	Check the keypad connection. Replace the main board
 is displayed	Overload	Clear the pan or reduce the weight.
 is displayed	<ul style="list-style-type: none"> ● Weighing pan is not in place. ● Weighing range is below zero. 	<ul style="list-style-type: none"> ● Ensure the weighing pan is correctly installed and the accessories are not touching the weighing pan or load cell. ● Reset the scale to zero.
 is displayed	Zeroing outside the zero setting range.	Ensure that zeroing is performed in the permissible range. (20% of capacity)