Washdown weighing checkweighing user manual

## Model: SWT



# **GRAVITY MEASUREMENT, INC.**

Please read this manual carefully before operation ----Important safety info ----Operating condition and other attentions ----Guarantee info



Please read the manual in details before operation



Adjust the bubble level on the balance position



Don't put the chemical liquid or other liquids to avoid damage to the scale



Please use the right plug and right voltage (110 V)



Don't hit the platform rudely and overload



Don't open the scale by yourself and please call the service people or our distributor when you get the problem



Please recharge the scale on time to assure the health of the battery, and replace the battery if it runs out of life. The replaced battery must be handled correctly.

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## **SPECIFICATIONS**

Accuracy: Class III Nonlinear: ≤0.01%F.S System working voltage: DC:5V Maximum A/D converting: 24bit Sample rate: 30 times per second (default)

### POWER

Input: 120~240V Output: 12V/1A Rechargeable battery: 6V/4AH

#### BEFORE USING

- 1) Place this product on a firm and smooth place, don't place it in vibration or shaking, use bench for use on four only adjust foot, adjust the balance using the bubble level.
- 2) Use independent source, avoid other electrical disturbance.
- 3) Don't put any object on the platter when turn on the balance.
- 4) Please, turn on 2-3 minutes before using.
- 5) Avoid temperature change too large and air flow strenuous sites.
- 6) Don't overload the balance, don't exceed the maximal capacity.

## SYSTEM POWER CONSUMPTION

Main system power consumption: about 20mA Battery life: about 200 hours.

## **DISPLAY DESCRIPTION**

#### SWT Model:



## BASIC FUNCTION OPERATION



Function 3. To change/increase values upward in setup mode.

## **BASIC PARAMETER SETTING**



Remarks: 0 0 0

A B C

A --- Buzzer on: 0= Stable not required 1= Stable required

B --- LED indicator: 0= Stable not required 1= Stable required

C : Buzzer beeps when: 0= Buzzer off 1= OK 2= LO or HI

Please note that low limit set as 0 will clear all check weigh values, even there is a high limit set.

#### **UF-∃** Auto-power off

Modes: HoFFIII :Auto-turn off disable.

**R**<sub>o</sub>**FF**<sub>O</sub> : The balance will automatically turn off after 1 minute of non use. This time can be set up to 99 minutes.

- Press the vertex key to access to auto-power configuration.
  Use the vertex key to move cursor and press the vertex to select number.
  Press the vertex key to confirm.
- UF- Standby time setting

Modes: <u>45P</u> : The balance will standby time 10s.

- 1. Press the key to access to standby time configuration.
- 2. Use the  $\bigcirc$  key to move cursor and press the  $\bigcirc$  to select number.
- 3. Press the on key to confirm.

## UF-5 Speed setting



## LF-7 G Value setting

- 1. Press the to display the G value of manufacture place.
- 2. Use the **CON** key to move cursor and press the **FN** to select number.
- 3. Press the on key to confirm.

## Quick Weight Calibrations (ECF1-ECF3)

- 1. In weight mode, press the **FN** key for more than 2 seconds, the display will show **E**[F-1].
- 2. Press the **FN** key to select <u>ECF-1</u>, <u>ECF-2</u> or <u>ECF-3</u>.

#### EEF-1 Zero and Span Calibration

Press the rest is key to enter, display will show [FIL2].
 With nothing on the platter, press the rest is key to calibrate zero point.
 The display will show the calibration weight \_\_\_\_\_\_\_\_.
 Use the rest is key to select the digit, press FN key to input the weight value.
 Put the calibration weight on the platter and press the rest key to calibrate.

The scale will return back to weighing mode automatically.

#### EEF-2 Zero Calibration

- Press the enter, display will show ERL2.
  Press the enter, display will show ERL2.
  Press the enter, display will show ERL2.
- 3. The scale will return back to weighing mode automatically.

#### EEF-3 Span Calibration



## **Advanced Function Operations**

To get into locked functions (LF1-LF8), press and hold



until 100611 is shown and

then release. Use **FN** and **GN** to Enter P0020



FN

Increase the values upward and then recycle the values.



Move the cursor to the right and confirm (Enter).

#### Table: Locked Functions for advanced operations

LF1	Weight calibration
LF2	Configurations for capacity, decimals and divisions. Check configurations
LE3	Linearity calibration. Use this to add 1-3 linearization points for the scale.
2. 0	equivalent to 0, 1/3, 2/3 and 3/3 of the max capacity.
	CAUTION! Perform the linearity procedure only if test weights applied to
	the scale between the zero and span calibration points are showing
	inaccuracies, such as $\pm$ a few divisions. If large inaccuracies are
	recorded, this indicates a possible mechanical problem or possible load
	cell failure which linearity calibration may not be able to correct.
LF4	AD update Rate: use this to select the sampling frequency: 15 (1), 30 (2)
	or 7.5Hz (3). Factory default: SPEEd 1 (standard 15Hz)
LE5	Zero Tracking: use this to define a $\pm 0$ /5 divisions range around zero.
-	When scale weight is not at the center of zero but inside this range, $\frac{1}{2}$ of
	the weight will be subtracted until that the weight is inside the center of
	zero region.
	Factory default: ZP 0 (off)
LF6	Default to nonE. Do not change.
LF7	G-value: use this item to key in a G constant value: 9.78031 < G <
	9.83217. If the scale has been calibrated at a different location and it is
	not possible to re-calibrate with known test weights, the scale can be
	adjusted using this gravity factor.
LF8	Zero at every power up: use this item to set an auto zero at the power up. Factory default is 5EE2

Detailed steps to set up configuration (LF2)

Enter the function LF 2 to set the units, range mode, calibration units, decimal position of the separator and division size.

262 144	Display internal values. Press				
1 10002	Configura	ations: Press	to move cursor and confirm. Press		
	FN to change the values. Need to move the all the way to the				
	right to confirm and go to next screen.				
	Description		Options		
	A	Metric units	0: disabled; 1: kg; 3: g		
	В	Imperial units	0: disabled; 1: lb		
	С	Other units	0: disabled		
	D	PCS	0: disabled		
	E	Multi-Range	0: disabled; 1: multi-range		
	F	Cal. unit	1: metric; 2: imperial		
	Examples:				
	I IDDD2 Use kg and Ib as units with Ib is used as calibration unit.				
	<u>∃ IDDD2</u> Use g and Ib as units with Ib is used as calibration ur				
060000	Set up the capacity. This screen has to be combined with next screen (decimals) to determine the final capacity.				
dP0.000	Decimal points 0.00000/0.0000/0.000/0.00/0.0/0. The use of 3 decimals here and 60000 in the previous screen indicates the capacity of 60 lb.				
d, 4 10	Divisions, choose from 01/02/05/10/20/50. Along with previous				
	screen, the minimum division is 0.01 lb.				
LF I	After the setting, you need to recalibrate the weight.				

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