

Digital Crane Scale User Manual

Models: OP-924A OP-924B

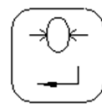
SPECIFICATIONS

Product Standard	GB/T11883-2017
Accuracy Grade	III
Time to Stable Reading	<10 Seconds
Display Specifications	5-digit Super High Brightness 25 mm red LED display Or 5-digit 8" (20mm) FSTN LCD display with backlight
Hanging Fixture	360-degree swirl safe hook & shackle
Operating Temperature	14°F--104°F (-4°C--40°C)
Operating Humidity	30% ~ 90% RH
Low Voltage Indicator	Low voltage indicator turns on when the scale power supply voltage is low.
Power Supply	6V/3.2AH lead-acid rechargeable Battery (self-contained)
Adaptor	Input:100-240V output:DV 6V/800mA
Auto Power Off	After 30 minutes of inactive or with extreme low power supply
Scale casing	Cast aluminum casing, corrosion safe, anti-static and light weight
Keypad	Light touch keypad

The keypad includes unit's selection, Zero, and Hold.
(Note: The above keys can be used in sub-menu to set up Beeper On/Off, hold enable/disable internal code displaying, etc.)

Max. Capacity	Division	Max. Capacity	Division
500 lb	0.1 lb	250 kg	0.05 kg
1000 lb	0.2 lb	500 kg	0.1 kg
1500 lb	0.5 lb	750 kg	0.2 kg
2000 lb	0.5 lb	1000 kg	0.2 kg
3000 lb	0.5 lb	1500 kg	0.2 kg

KEYPAD FUNCTIONS



-  : Press this key to set the current display to zero.
-  : Press this key to change units between lb and kg.
-  : Press this key to keep the current display, the screen will flash. Press it again to quit this operation.

SCALE OPERATIONS

1. Turn on the Scale
Press the mechanical switch located on the back of scale to "1" position to turn on the scale. The scale's maximum weighing capacity is first shown, and then the scale goes through a self-check sequence. After 0.0 is displayed and the stable light is on, the scale is ready to weigh. (Note: it is recommended to allow the scale 3~5 minutes of warm-up time before starting the weighing operation).

2. Zeroing
When the scale is switched on and with no load on the hook, press the  ZERO key to obtain the zero reading.

3. Weight Measurement
Once the load is on the scale completely, the display shows the weight value of the load. When the "Stable" indicator is on, weight value can be recorded. In case there is tare such as cable, load the tare and press  to zero the display to "0"lb. The weight value after this will be the net weight. This will not change until the tare change or the scale being turned off.

4. Turn Off the Scale
After weighing operation, the scale should be turned off. Press the mechanical switch on the back of the scale to "0" to shut off the power to the scale completely to prevent any leakage of the battery.

5. Unit Conversion
Under the weighing mode, press key  to change units between lb and kg.

BATTERY CHARGING INSTRUCTIONS

The scale uses maintenance-free 6V/3.2AH Lead-Acid battery. When scale is with low power, it will display the following signals:

- a. When the low power indicator light is on. The scale needs to be charged now. However, the scale can continue to be operated for about 3 hours without charging.
- b. After the low power indicator is ON for several hours without charging or there is no more power in the battery, the crane scale will be powered off automatically. It will take about 5 hours to fully charge the battery.
- C. After battery charging, if there is no display, it indicates that either there is difficulty in battery charging or a damaged battery.

With a fully charged battery, the scale can be operated for about 30 hours. To prolong the battery life, recharge the battery promptly for every 20 hours of usage. When charging the battery, use the original charger supplied with the scale to prevent the battery from unnecessary damages. In addition, turn off the power to shorten the recharging time. WHEN recharging the battery, the recharging light will be red. When the light is green, it indicates the battery is charged fully.

CARE AND MAINTENANCE

1. For weighing operation, don't load the scale with weight load exceeding the maximum capacity.
2. Perform routine inspection and maintenance to ensure operation safety for these basic items:
 - a) Check for loose bolts.
 - b) Check hook and shackle for deformation, wearing and tearing.
 - c) Check other scale component for signs of metal fatigue.
 - d) Check for missing hook latch.
3. Do not touch the display screen directly.
4. Do not use the scale in the rain or in a polluted environment.
5. Remove the battery and store the scale in a dry place if the scale is not going to be used for some time.

CALIBRATION PROCEDURE

Please do not attempt to calibrate the scale without standard weight

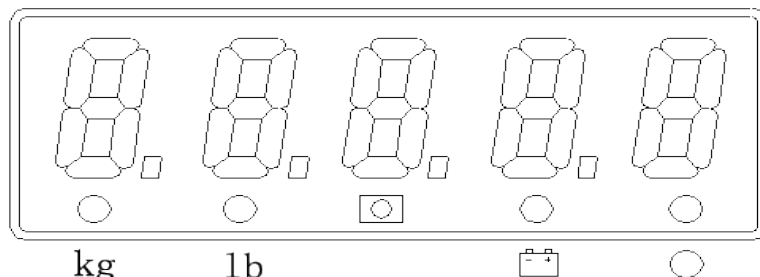
Step	Operation	Display	Remarks
1	Press & Hold Key to power on 	00000	Enter the calibration procedure needed to enter password
2	Press  Key to add Press  Key to move the digit left	*****	Enter password
3	Press  to confirm	SPAn	Scale should be with no load
4	Press  Key	SEt 00000	Confirm zero point, when stable, display "00000"
5	Press  Key to add Press  Key to move the digit left	1500.00	Load the scale. The closer to full capacity, the better. For example, 1500kg
6	Press  Key	HOLd	To store the result once the weighing becomes stable
7	-----	1500.00	System goes back to weighing mode after several seconds.

SUB-MENU SETUP INSTRUCTIONS

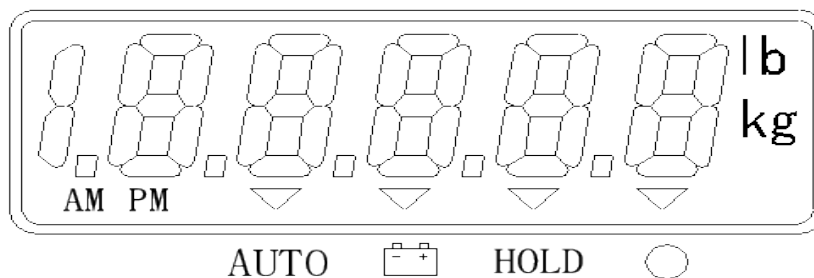
Step	Operation	Display	Remarks
1	Press  key during the scale self-check sequence "9,...0" to enter the sub-menu	00000	Enter the sub-menu, needed to enter password
2	Press  Key to add Press  Key to move the digit left	*****	Enter password
3	Press  to confirm	bEE 1	Enter the alarm ON/Off setup mode. Press  or  key to toggle the digit. "0" is Off, "1" is "ON"
4	Press 	HOd 1	Hold valid/invalid setting Press  or  to change "0" is invalid, 1 is valid
5	Press 	Stb 0	Zero setting Press  or  to switch "0" can zero under any condition "1" can zero only with the steady reading
6	Press  Applicable to LCD series For LED series, please refer to the next step	Aut 0	Manual /AUTO backlight setup Press  or  to switch "0" is manual, "1" is auto
7	Press 	CHt 0	Units conversion between lb and kg Press  or  to switch "0" is lb, "1" is kg
8	Press 	OFF 1	Press  or  to switch 1: Auto Power Off (after 30 minutes when the scale is inactive) 0: shut off the auto power off
9	Press 	YES 0	Save or not Press  or  to switch "0" is not to save, "1" is to save
10	Press 		System will restart automatically

DISPLAYS

LED Display



LCD Display



lb: Weighing in lb.

HOLD: The current weight is being held.

AUTO: Manual or Auto backlight. When this symbol is on, it indicates the backlight will be on during the weighing process.

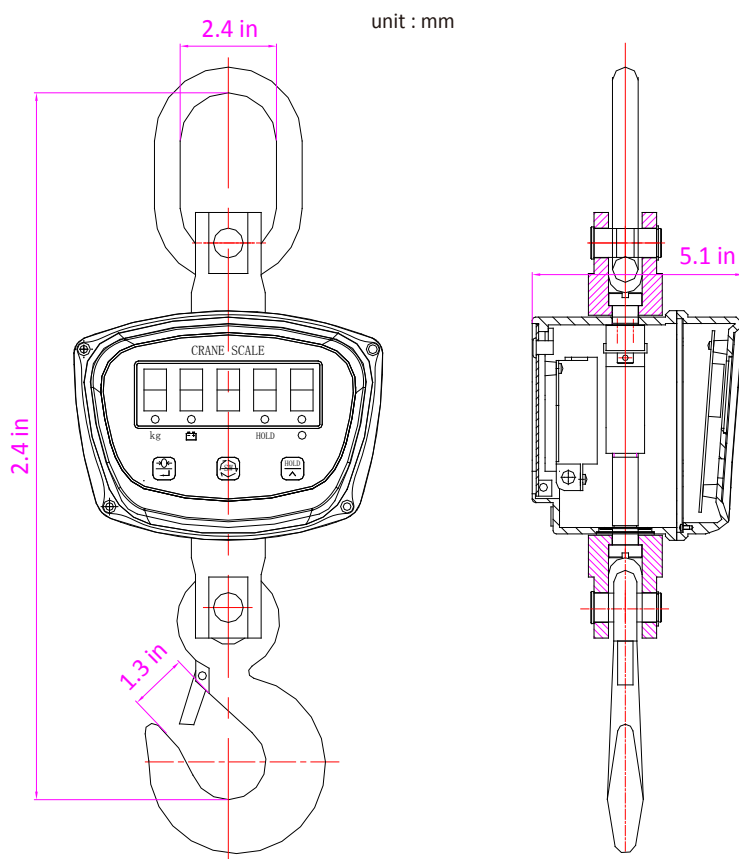


: 'Low Battery' indication. When the lamp flashed, the battery needs to be charged.



Stable indicator. When this symbol is **on**, the weighing process is stable and customer can take record of the weight.

DIMENSIONS



OP924 Capacity Change and Calibration

Capacity Setup

1. Enter Setup Mode

Press and hold the **ZERO** key, then press **ON** without releasing ZERO. The display will show 00000.

2. Enter Password

Enter the password 11111:

- Press **HOLD** to increase the digit
- Press **UNITS** to move the cursor left

Once 11111 is displayed, press **ZERO** to confirm.

3. Navigate to Capacity Setting

The display will show SPAN. Press **ZERO** repeatedly until 00000 appears.

4. Re-enter Password

Enter 11111 again using the same method, then press **ZERO** to enter Capacity Setting mode.

5. Set Capacity

Press **HOLD** to select the desired capacity (e.g., 10000 kg), then press **ZERO** to save the setting.

Calibration

1. Enter Calibration Mode

Press and hold **ZERO**, then power on the indicator. The display will show SPAN, indicating the scale that has entered Calibration Mode.

2. Start Calibration

Press **ZERO**. The display will show SET, followed by 00000. Wait until the reading is stable.

3. Enter Standard Weight Value

Enter the value of the standard calibration weight:

- Press **HOLD** to increase the selected digit
- Press **UNITS** to move to the next digit
- Repeat until the display matches the value of the standard weight to be used (e.g., 1000 kg)

4. Place Calibration Weight

Place the corresponding standard calibration weight on the scale.

5. Save Calibration

Once the reading becomes stable, press **ZERO** to save the calibration.