



## Baxtran SMC Crane Scale User Guide

[Home](#) » [Baxtran](#) » Baxtran SMC Crane Scale User Guide 

**Baxtran SMC Crane Scale**



## Contents

- 1 PRECAUTIONS
- 2 PRODUCT DESCRIPTION
- 3 INSTALLATION
- 4 DISPLAY & KEYS
- 5 OPERATION
- 6 PARAMETER SETTING
- 7 CALIBRATION
- 8 ERROR CODES
- 9 WARRANTY
- 10 Customer Support
- 11 Documents / Resources

## PRECAUTIONS

### WARNING & CAUTION



**WARNING**

Disconnect all power to this unit before installing, cleaning, or servicing. Failure to do so could result in bodily harm or damage the unit.

### **CAUTION**



Permit only qualified persons to service the instrument.



Before connecting or disconnecting any components, remove the power.



Failure to observe these precautions could result in bodily harm or damage to or destruction of the equipment.

- The crane scale is a precision electronic instrument, handle it carefully.
- Use the crane scales only for lifting and weighing of freely movable loads.
- Do not stand or go under suspended loads.
- Do not use on building site.
- Keep an eye on suspended.
- Do not exceed nominal load of crane scales.
- Do not install the scale in direct sunlight.
- Verify the local voltage and receptacle type are correct for the scale.
- Only use original adaptor, other could cause damage to the scale.
- Pluggable equipment must be installed near an easily accessible socket outlet.
- Avoid unstable power sources. Do not use near large users of electricity such as welding equipment or large motors.
- Avoid sudden temperature changes, vibration, wind and water.
- Avoid heavy RF noise.
- Keep the scale clean.
- When working with the crane and crane scales wear personal safety equipment (helmet, safety shoes etc.).

### **HANDLING INSTRUCTIONS**

Read and observe the following warnings and precautions to ensure correct and safe use of Li-ion batteries.

### **DANGER**

- Do not immerse the battery in water or allow it to get wet.
- Do not use or store the battery near sources of heat such as a fire or heater.
- Do not use any chargers other than those recommended.
- Do not reverse the positive (+) and negative (-) terminals.
- Do not connect the battery directly to wall outlets or car cigarette-lighter sockets.
- Do not put the battery into a fire or apply direct heat to it.
- Do not short-circuit the battery by connecting wires or other metal objects to the positive (+) and negative (-) terminals.
- Do not pierce the battery casing with a nail or other sharp object, break it open with a hammer, or step on it.
- Do not strike, throw or subject the battery to severe physical shock.
- Do not directly solder the battery terminals.
- Do not attempt to disassemble or modify the battery in any way.

- Do not place the battery in a microwave oven or pressurized container.
- Do not use the battery in combination with primary batteries (such as dry-cell batteries) or batteries of different Capacity type or brand.
- Do not use the battery if it gives off an odor, generates heat, becomes discolored or deformed, or appears abnormal in any way.

If the battery is in use or being recharged, remove it from the device or charger immediately and discontinue use.

## **CAUTION**

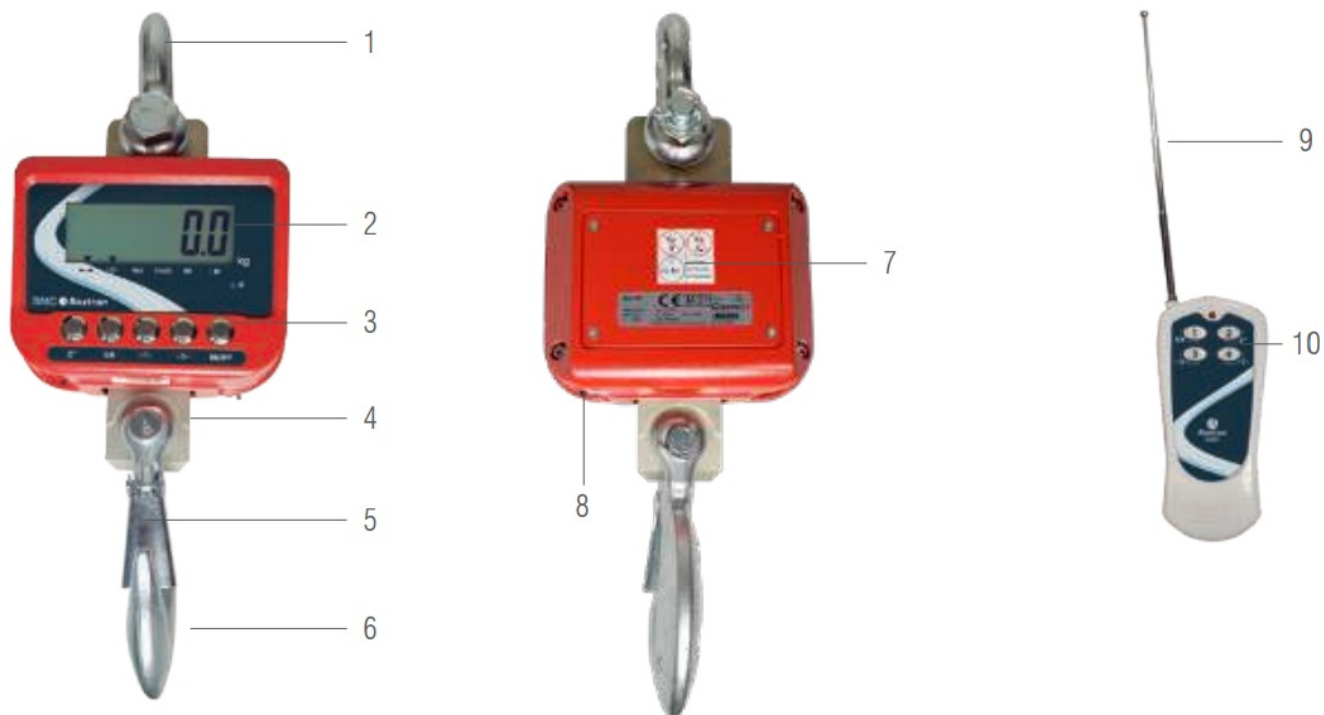
- Do not use or store the battery where is exposed to extremely hot, such as under window of a car in direct sunlight in a hot day.  
Otherwise, the battery may be overheated. This can also reduce battery performance and/or shorten service life.
- If the battery leaks and electrolyte gets in your eyes, do not rub them. Instead, rinse them with clean running water and immediately seek medical attention. If left as is, electrolyte can cause eye injury.
- Use the battery only under the following environmental conditions. Failure to do so can result in reduced performance or a shorten service life. Recharging the battery outside of these temperatures can cause the battery to overheat, explode or catch fire.
- Operating environment:
  - When charging the battery: 0°C ~ 45°C
  - When discharging the battery: -20°C ~ 60°C
  - When stored up to 30 days: -20°C ~ 60°C
  - When stored up to 90 days: -20°C ~ 30°C

## **PRODUCT DESCRIPTION**

### **GENERAL**

- The crane scales has Die-Casting Aluminum housing, that are a multi-purpose and cost-saving solution for overhead weighing applications.
- 30mm digits LCD display with LED back light.
- Rechargeable Li-battery operation.
- Sleep function.
- With remote controller for controlling, easy to operate.
- IP65 waterproof technology.

### **OVERVIEW**



CRANE SCALE – FRONT	CRANE SCALE – BACK	CONTROLLER
1. Loop	7. Battery cover	9. Antenna
2. Weight display	8. AC adapter jack	10. Controller keyboard
3. Keyboard		
4. Load housing		
5. Safety bracket		
6. Hook		

## **TECHNICAL DATA**

MODEL	SMC-600	SMC-1.5	SMC-3	SMC-6	SMC-12
Maximum Capacity	600 kg	1.5t	3 t	6 t	12 t
Minimum Capacity	4 kg	10 kg	20 kg	40 kg	100 kg

<b>Readability</b>	<b>0.2 kg</b>	<b>0.5 kg</b>	<b>1 k g</b>	<b>2 k g</b>	<b>5 kg</b>
<b>Max. Divisions</b>			<b>1/ 3 0 0 0</b>		
<b>Tare range</b>	<b>-599.8 kg</b>	<b>-1499.5 kg</b>	<b>- 2 9 9 9 k g</b>	<b>-59 98 kg</b>	<b>-11995 kg</b>
<b>Linearity-±</b>	<b>0.2 kg</b>	<b>0.5 kg</b>	<b>1 k g</b>	<b>2 k g</b>	<b>5 kg</b>
<b>Weighing Units</b>	<b>kg/t</b>				
<b>Display</b>	<b>6 digits 30mm LCD digital display</b>				
<b>Housing</b>	<b>Die-casting Aluminum</b>				
<b>Operation Temperature</b>	<b>-10°C – + 40°C</b>				
<b>Power</b>	Input: AC100-240v 50-60Hz, Out put: DC 12V/2500mAh <b>Standard rechargeable Battery (7.4V/5200mAh)</b>				
<b>Battery life</b>	<b>Approx.60 Hours (with backlight)</b> <b>Approx.72 Hours (without backlight)</b>				
<b>Remote Controller</b>	<b>Alkaline Battery 12V/23A</b> <b>Dimension (VV X D X H) 48 X 16 X 95 mm</b>				
<b>Keypad</b>	<b>5 mechanical keys</b>				
<b>IP Protection</b>	<b>IP65</b>				
<b>Dimensions (WxDxH)mm</b>	201 x 128.5x <b>477</b>	201 x 128.5x <b>477</b>	<b>201 x 128 .5x 532</b>	<b>201 x 128 .5x 624</b>	201 x 128.5x 660
<b>Net weight</b>	<b>8.52 kg</b>	<b>8.52 kg</b>	<b>9.8 8k g</b>	<b>17. 04k g</b>	20.01 kg
<b>Gross weight</b>	<b>10 kg</b>	<b>10 kg</b>	<b>11. 5 k g</b>	<b>18. 5 k g</b>	21.5 kg

## INSTALLATION

## UNPACKING

When you receive the scale, inspect it to make sure that it is not damaged and that all are parts are included:

- Remove the scale from the carton.
- Remove the protective covering. Store the packaging and to use if you need to transport the scale later.
- Inspect the scale for damage.
- Make sure all components are included.
- 1.Crane Scale
- 2.Remote control
- 3.Adaptor
- 4.Manual

## **INSTALLATION**

- The location must be such that the instrument is not subject to excessive vibrations, heat or humidity.
- Avoid direct sunlight on the front of the instrument.
- The unit has to be installed at the right height to allow an easy reading of the display and convenient keyboard operation.
- The loads which hang on the hook should be a vertical load.

## **POWER CONNECTION**


- Connect the adaptor pin in to the indicator adaptor jack.
- Adaptor jack is locating below the scale.
- Adaptor connects into your AC power socket. Plugable equipment must be installed near an easily accessible socket outlet with a protective ground/ earth contact.



Adapter jack

## **RECHARGEABLE BATTERY OPERATION**

**Note: Please charge the battery before using the scale for the first time.**

- The ▼ indicator above  indicator appears indicates that the battery is getting low. It's time to charge the battery with the AC power. If scale goes on being used without proper charging, **LO-BAT** words will flicker on the display.
- Approximately 30 minutes of instrument usage are left; afterwards it will shut off automatically.

- Please use the supplied battery charger for charging the battery immediately, or scale cannot be used.

## CHARGING THE BATTERY

- Before the first use, the battery should be charged by connecting it to the mains power supply for at least 5 hours.
- When the scale is plugged into the mains power the internal battery will be recharged.
- Verify that the AC power socket outlet is properly protected.
- Under right side of the weight display there is an charging LED to indicate the status of battery charging
- Charge status of rechargeable battery is indicated by the LED display.
- Yellow: The battery is being charged
- Red: The battery is nearly discharged
- Green: Rechargeable battery is completely charged

## BATTERY MAINTENANCE

- Do not use any other type of power adaptor than the one supplied with the scale.
- Recharge battery should be changed in every three months when not in use.
- If the scale is not used for an extended period of time,remove the battery from the battery compartment to avoid leakage.
- Store the battery in a sealed bag or box in a dry, temperate environment.
- Do not throw away as rubbish of daily life.

## DISPLAY & KEYS FUNTION

### KEY BOARD






KEYS	DESCRIPTION
<b>ON/OFF</b>	ON/OFF key, turn the scale on / off.
<b>-&gt;0&lt;-</b>	1) Zero key, Used to clear and zero the display. 2) Enter key. Used to enter the selected menu, sub-menu and setting.
<b>-&gt;T&lt;-</b>	1) Tare key, Used to perform a tare function, Subtracts weights. 2) Setup menu key.Used to enter the setup menu during self-checking. 3) To change the menu option in menu setting.
<b>G/N</b>	1) Used to shift the gross weight and net weight. 2) Right arrow key. Used to move the digit to the right. 3) Escape key ,Used to escape from menu setting.
<b>Z^Z</b>	1) Sleep mode key, Used to enter sleep mode in normal weighing mode. 2) Clear the active digits in setting mode.



## INDICATOR DESCRIPTION



KEYS	DESCRIPTION
<b>Net</b>	Net indicator. Indicates scale is displaying the net weight.
	Stable indicator. Indicates the scale weight is stable.
<b>→0←</b>	Zero indicator. Indicates the scale is at zero.
<b>M+</b>	Sleep mode indicator, when this indicator on, scale will be into the sleep mode
<b>Hold</b>	Gross indicator. Indicates scale is displaying the gross weight.
	Battery indicator. The battery should be charged when the symbol is on.
	Charging indicator. Indicates the battery charging status.

## REMOTE CONTROLLER



- Key 1 For using shift gross and net weight
- Key 2 For using enter sleep mode
- Key 3 For using enter Zero
- Key 4 For using tare

## **OPERATION**

### **INITIAL START-UP**

Warm-up time of 15 minutes stabilizes the measured values after switching on

### **SWITCHING ON/OFF**

- Switch on the scale by pressing **ON/OFF** key. Display will be show the scale version and will be starting self checking.
- After self checking, display will be come to normal weighing mode.
- To switched off the scale, press **ON/OFF** key again.

### **ZEROING**



Environmental conditions can lead to the balance exactly zero in spite of the platform not taking any strain.

However, you can set the display of your balance to zero any time by pressing **→0←** key and therefore ensure that the weighing starts at zero.


## USING TARE

The weight of any container can be tared by pressing  button so that with subsequent weighing the net weight of the object being weighed is always displayed.



## **TARING A CONTAINER**

- Load weight on the hook.
- Press  key. Zero is displayed, and tare is subtracted. And **Net** indicator will be on.
- Remove weight from the hook. Tared weight is displayed. It can set only one tare value. It will be shown with a minus value.
- Press  to change between gross weight and net weight.

## **CLEARING TARE**

- To clear the tare value, remove the load from the hook.
- Press  key. Zero is displayed, the **Net** indicator off, tare weight is cleared.



## SELECT WEIGHING UNITS

- Load the weight on the hook. Example: display show **0.8 KG**
- Hold  key for 3 seconds in normal weighing mode.
- The weight will be convert to **t** unit, the indicator of left side display will appear. Example: display show **0.0008 T**
- Hold  key again to back to kilogram mode.

## OVERLOAD WARNING




Please do not add item that is over the maximum capacity. When reading **-OL-**, remove the item on the hook to avoid damage to the load cell.

## SLEEP MODE

- Press  key to enter sleep mode in normal weighing mode, the display only show sleep indicator when in sleep mode;
- Press  key again, display will be back to normal weighing mode.

## AUTO POWER OFF SETTING




It can set auto power off the crane scale, when scale not in use, scale will turn off after the setting time. If want to enable the function, please see parameter **F9 OF**

- Press  key to select the options;
- Press  key to confirm;
- Press  key to escape from the settings.

F9 OF	Of 0	To set auto off function turn off, for scale always on
	Of 5	Set to turn off 5 minutes later
	Of 10	Set to turn off 10 minutes later
	Of 20	Set to turn off 20 minutes later
	Of 30	Set to turn off 30 minutes later

## **BACK LIGHT SETTING**


It can set back light when scale in use.

- Hold  key ,the display will be show bk AU;
- Press  key to select the options;
- Press  key to confirm;

bk AU	To set auto option. When start to use back light will be on and when stop the operation back light also will off.
bk ON	To set always on. After turn on the power, back light also will be on.
bk OF	To set back light turn off. No back light in the operations.

**Note:** If the battery gets low, the backlight function will not be available

## **REMOTE CONTROLLER**

SMC crane scale can order remote controlled, you can find 4 keys at the remote controller. the function is same with the crane scale except  key.

Please pull out the antenna before operate the remote controller. The remote controller operate distance is around 20m, but it's depends on the operate environment.

The red LED must light up when any button is pressed. If it does not light up, the batteries in the remote control must be exchanged.

## **OVERLOAD RECORDS**

- Please do not add item that is over the maximum capacity. When reading show **—OL—** and hear beeping sound, remove the item on the hook to avoid damage to the load cell.
- Once overloaded , the overload records will be recorded.

## PARAMETER SETTING

### PARAMETER SETTING

ENTER THE MENU

<b>ON/OFF</b>	Turn on the scale.
<b>→T←</b>	Press TARE key during that start up until display will be shown P1—;
000	Then input password, the default password is 000;
<b>G/N</b>	Press G/N key to move the active digit;
<b>→T←</b>	Press TARE key to increment a digit;
<b>→0←</b>	Press ZERO key to confirm, display will shows F0 CAL, scale enter setting mode

ENTER THE SELECTED MENU

<b>→0←</b>	Press ZERO key, it can confirm which will be shown displayed.
------------	---

SELECT THE MENU

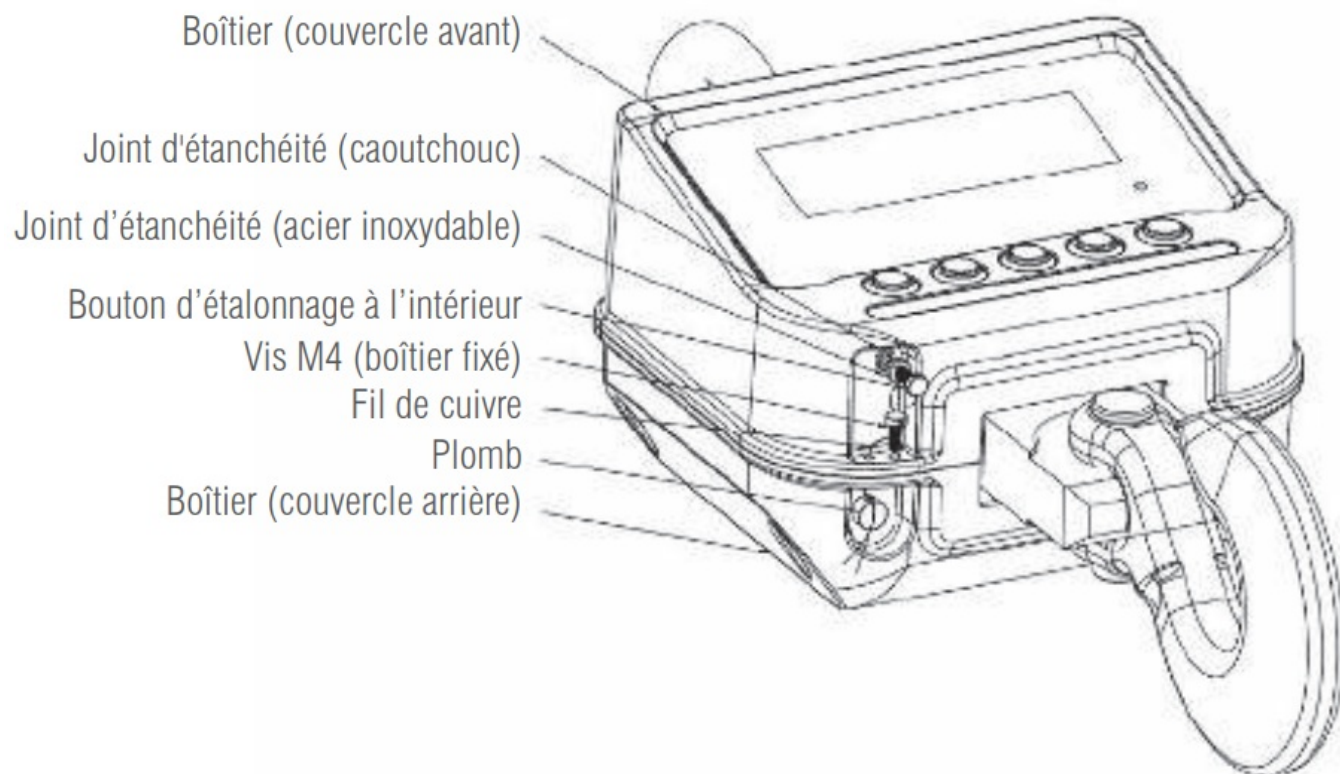
<b>→T←</b>	Press TARE key, it can choose menu block one by one.
------------	--

ESCAPE FROM THE MENU

<b>G/N</b>	Press G/N key to escape from the setting menu.
------------	--

To access the technical parameters, it's required to press the calibration switch, switch is locating below the housing.

Only authorized personal. Break the seals produces device loose its verification.







## MENU BLOCK

MENU — DESCRIPTION			
F0 CAL	Calibration		
F1 CAP	single	600	To select the capacity
		1500	
		3000	
		6000	
		12000	
F2 5P	Slow		Set AD speed
	Mid		
	Fast		
F3 I P	To show the internal counts		
F4 RA	Set your local gravity value		

F5 COM *  * Not available	mode	Blue		Bluetooth communication mode
		WIFI	ON	To enable WIFI communication
			OFF	To disable WIFI communication
	Off		Communication port function off	
	baud	600		Baud rate selection
		1200		
		2400		
		4800		
		9600		
	F6 TI	00:00		
F7 DA	00.00.00			Set date
F8 T	on			Multi-tare function on
	off			Multi-tare function on
F9 OF	Set automatic turn off the scale			
	0			Auto off function disable
	5			Scale will be auto off 5 minutes later
	10			Scale will be auto off 10 minutes later
	20			Scale will be auto off 20 minutes later
	30			Scale will be auto off 30 minutes later
F10 OVE				To view the counts of overload

## CALIBRATION

<b>ON/OFF</b>	Press ON/OFF key to turn ON the Scale;
<b>→T←</b>	Press TARE key during that start up until display will be shown P1—;
000	Then input password, the default password is 000;
<b>G/N</b>	Press G/N key to move the active digit;
<b>→T←</b>	Press TARE key to increment a digit;
<b>→0←</b>	Press ZERO key to confirm, display will shows F0 cal;
	Press calibration switch, the switch is locating below the housing;
<b>→0←</b>	Press ZERO key to enter calibration, display shows Unload
	Empty the hook, when the  indicator above STABLE  appears, press <b>→0←</b> key to confirm, display will show calibration weight value;
	You can change this weight value, using <b>Z<sup>ZZ</sup></b> key to clear the active digits , using <b>G/N</b> key to move the active digit right, using <b>→T←</b> key to increment a digit;
<b>→0←</b>	Press Zero key to confirm;
	Display show LOAD, add calibrate mass weight on the hook.
	When the  indicator above STABLE  appears, press <b>→0←</b> key to confirm, display show <b>PASS</b> ,it will be self-checking and back to normal weighing mode.

If display show any error message, please re-calibrate the scale again.

## ERROR CODES



ERROR MESSAGE	DESCRIPTION	SOLUTION
Err 4	Zero setting error	Zero setting range exceeded due to switching on.(4%max) Make sure platform empty.
–OI–	Over range	Remove the load. Re calibrate
LO-BAT	Low battery indicator	Please charge the battery
FAIL	Calibration Error	Check the test weights & Re calibrate
ERR 17	Tare out of range	Minus weight or overload. Remove the load and restart scale again.
ERR 6	A/D value out of range	Make sure platform empty and check the pan is installed proper. Check the load cell connectors.

## WARRANTY

This weighing hook is guaranteed for one year from the delivery date. The guarantee covers any fabrication defect of the material.

During this period, BAXTRAN covers the manpower and the spare parts necessary to repair the weighing hook.

This guarantee does not cover the failures caused by an inappropriate use or overload.

The guarantee does not cover the freight cost (transport) necessary to repair the equipment.

## Customer Support

Pol. Empordà Internacional C. Molló, 3  
17469 VILAMALLA – (Girona) ESPAÑA  
T. (34) 972 527 212 – F. (34) 972 527 211




---

## Documents / Resources



## [Baxtran SMC Crane Scale](#) [pdf] User Guide

SMC-600, SMC-1.5, SMC-3, SMC-6, SMC-12, SMC Crane Scale, SMC, Crane Scale