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8204
ELECTRONIC CRANE SCALES

Instruction Manual

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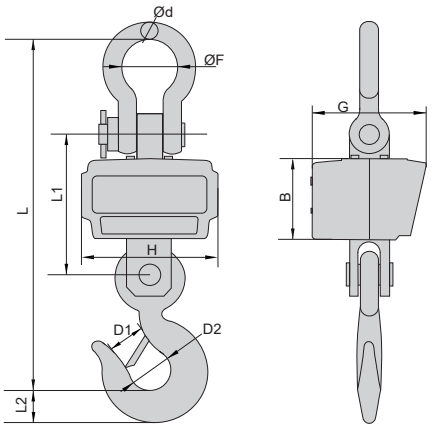
VIDEO

Thank you for choosing our 8204 series electronic crane scale, please read this manual carefully before use and follow it. If you have any questions, please contact us directly, we will provide you with satisfactory service.

1.Synopsis

The 8204 series electronic crane scales combine reliable, advanced electrical hardware with excellent software. The scale adopts AT-89 series microprocessor and high-speed, high-precision A/D conversion technology, and a unique shaking compensation circuit, which makes the weighing stabilization faster.
This series of crane scales has a strong anti-interference ability, can be widely used in commercial, industrial and mining enterprises and warehouses and terminals and other measurement occasions.

2. Basic models and sizes



Unit: mm

CODE	B	G	H	L	L1	L2	D1	ØD2	Ød	ØF
8204-CS06T-C	120	163	198	420	190	33	40	47	21	76
8204-CS1T-C	120	163	198	420	190	33	40	47	21	76
8204-CS2T-C	120	163	198	420	190	33	50	47	21	76
8204-CS3T-C	120	163	198	462	196	40	50	50	23	76
8204-CS5T-C	120	163	198	511	204	47	52	60	26	80
8204-CS10T-C	135	181	206	589	239	66	52	70	36	90
8204-CS15T-C	135	181	206	727	257	77	60	85	47	135

SPECIFICATION

Code	8204-CS06T-C	8204-CS1T-C	8204-CS2T-C
Maximum weighing	600kg	1000kg	2000kg
Minimum weighing	4kg	10kg	20kg
Resolution (d)	0.2kg/0.1kg	0.5kg/0.2kg	1kg/0.5kg
Verification interval (e)	0.2kg	0.5kg	1kg

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Code	8204-CS3T-C	8204-CS5T-C	8204-CS10T-C	8204-CS15T-C
Maximum weighing	3000kg	5000kg	10000kg	15000kg
Minimum weighing	20kg	40kg	100kg	100kg
Resolution (d)	1kg/0.5kg	2kg/1kg	5kg/2kg	5kg/2kg
Verification interval (e)	1kg	2kg	5kg	5kg

3. Keyboard functions



ADD	Accumulator key，Allows you to totalize the current weighing value into the total weight. This key can also be used to view the total number of weighs and the totalized weight.
HOLD	Hold key，The current weight value is retained without changing with the load and the hold indicator above the key is on.Press this key again to cancel the hold function and the hold indicator goes out. Press this key to add 1 to the last digit and cycle between 0 and 9 during numerical value input.
TARE	Tare key，The tare operation can be carried out. After tare, the net weight is displayed and the tare indicator light above the key is on. Press the key again to restore the gross weight display and the tare indicator goes out. During the numerical input, press this key to move the value left one place, the last position is 0.
ZERO	Zero key，The current display can be zeroed and illuminated, and the stabilization indicator above it will usually be illuminated as well.

4. Operating Method

[1] Power on

Turn on the power switch at the back of scale to the ON position. The scale will display the version number and then the maximum weight capacity individually for one second. Then the nixie light will display “99999”,”88888”…….”00000” in turn. Then scale will undergo self-check of reset sequence and indicators with LED indicators on and off alternatively and finally come into weighing mode.

[2] Initial on zeroing

After power on, the scale enters into weighing mode and then displays “0”kg. If it is not “0’kg, it’s normally caused by overloading the permitted value of the initial on zero range. In this case, please switch off the scale and re-start it and choose the desired parameter. (Please see initial on zero Range below.)

[3] Manual Addition

When the displaying value is over zero, with weight on the scale, pressing ADD key, the current weighing value will be added to the total weight if with valid parameter. (Please see 4.5 Set Parameters.) The scale will show “bXXXX” for about one second. Here, “b” means the total number of loads and “XXXX” indicates the total number of adding.

Note: No matter manual add or atuo-add, please zero the displaying value before another manual adding. Here, the zeroing range includes 20 division value of the capacity. When the number of adding reaches 9999, it will display FULL which indicates full memory. In this case, please clear the memory according to “4.7 Clear” in the following.

[4] Display of Total Weight

When the displaying value is within the zeroing range, press ADD key to see the total number of adding and the total weight of loads. It will firstly display the total number of loads. For example, the scale shows “b0327” indicating 327 loads weighed so far. Press ADD again, it will display the four left-hand number of the added value. For instance, “H 108” indicates the left-hand number of the total weight is “108”. Press ADD for the third times, it will show the four right-hand number of the total weight. For your reference, “ L 2896” indicates the right-hand number of the total weight is “2896”. Accordingly, the total weight of the loads is “1082896 kg”.

[5] Set Parameters

Press ZERO during self-check sequence from “99999” to “00000”

Function	Operation	Display	Remarks
Division	Press【 ZERO 】during self-check sequence from “99999” to “00000”	dS 1	0: Measured Division 1: Selectable Division Press【 TARE 】to change.
Sets buzze	Press【 ADD 】	bEE 1	0: Disable 1: Enable Press【 TARE 】to change.
Zero point drift	Press【 ADD 】	to 1	0: Close 1: Activate Press【 TARE 】to change.

Function	Operation	Display	Remarks
switch off the scale mode	Press【 ADD 】	oFF 2	0: The scale will keep displaying. 1: The displaying window will go into sleeping mode with stable weighing value for 30 minutes. It will be activated when the displaying value is unstable or press the【 HOLD 】key . 2: The scale will keep working for 30 minutes with stable weighing value displayed and then power-off automatically. Press【 TARE 】to change.
Addition condition	Press【 ADD 】	AS 1	0: Adding allowed when unstable 1: Adding not allowed when unstable Press【 TARE 】to change.
Sets units	Press【 ADD 】	Unt 0	0: kg 1: lb Press【 TARE 】to change.
Initial on zero range Setup	Press【 ADD 】	o 20	percent of capacity Press【 TARE 】to change.

Function	Operation	Display	Remarks
Clear	Press【 ADD 】	CLEAr	Press【 ADD 】save clear Operation then quit. Press【 ZERO 】to quit without save.

[6] Display of Total Weight

During the weighing process, the weight is ready to be recorded when the stable weight result is shown and the STAB indicator is on. If there is tare involved, such as rope or container, weigh them first. Press ZERO to apply tare. The display should now be “0.0kg”, the net weight. With no change to the tare, the loads weighed afterwards will be their net weights until the change of tare value or the scale is turned off.

[5] Power Off

After the weighing operation, turn off the scale by using the power switch on the back of the scale.

5.Battery Charging

■ It adopts maintenance-free rechargeable battery (6V/4.5Ah) and smart charger (DC6V/1Ah).
■ Once the digits blink on the scale,it reminds the scale of low battery.The battery needs to be charged now.
■ After the digits blink for several minutes without charging or there is no more power in the battery, the scale will be powered off automatically. It will take about 5 hours to fully charge the battery.

■ After battery charging, if there is no display, it indicates that either there is difficulty in battery charging or a damaged battery. Please contact supplier for repair or replacement.
■ To prolong the battery life, we suggest you charge the battery no less than once per week. If the scale needs not to be charged for long time, you should charge it no less than once per month. To avoid any damage to the battery, please charge it correctly.
■ Additionally, we suggest you switch off the scale to short the charging time.

6.Scale Cares

■ Do not overload the scale to prevent the damage to the force transducer inside the scale. It will alarm you with buzzer and display “OVErl” if overloaded.
■ If display “Err01”after power on the scale, indicates that it will influence the accuracy or the important parameters lost.
■ Please check the scale frequently to insure the safe use. The basic checking list is:
▲ Whether the screw has come loose
▲ Whether the hook or shackle or any other component is cracked or distorted
▲ If the mechanical components showing sign of metal fatigue or defects
▲ Whether the pin is off or the components are lost.
If there is any sign of the mentioned condition, please send the scale or components back to the manufacturer for repair or exchange before using the scale again.
■ Avoid any impact to the display panel.
■ Do not use the scale under wet or heavily polluted conditions.

6.Calibration

Step	Operation	Display	Remarks
1	Hold on【ZERO】to power on the scale	00000	1st step of calibration. Password is required.
2	Press【TARE】to select the desired number, press【HOLD】to shift digit	*****	****** is the password
3	After entering password, press【ADD】	SPAN	There should be no load on the scale
4	Press【ADD】	9500	9500 is the encode at zeroing loading
5	Press【ADD】	00000	Wait until the codes become stabilized and press【ADD/INPUT】
6	Press【TARE】to change to the desired number for the standard weight, press【HOLD】to shift digits	03000	03000 is the standard weight of 3000kg to be loaded.

Step	Operation	Display	Remarks
7	After the standard weight is loaded, press【ADD】	77683	77683 is the encode number of standard weight - 3000kg.
8	Press【ADD】	3000	Calibration is completed. The scale is in weighing mode. The current weight load is displayed.

Note:
1.Please make sure to wait until the encode is stabilized then press【ADD】or it will lead to incorrect weighing results.
2. Do not calibrate the scale without standard weight.