



# FLEX 200C Digital Wireless Crane Scale Manual



Patented Design, Imitation is not permitted.

Patent No.ZL201320105827X

## OCS Series Electronic Crane Scale

**Thank you for choosing our OCS Series electronic retail scale. Before operation, read this manual carefully and operate it in accordance with this manual. In case of any questions, get in contact with our company and we will provide you with satisfactory services.**

# OCS Series Electronic Crane Scale

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**Warning:** The indicator and the crane scale must be one-to-one, please confirm the ID No. of both are the same!!  
Power on the crane scale first then power on indicator.  
Overloading is strictly prohibited!!!

## Chapter 1 Main Specification

### 1- Analog :

Model	FLEX-200C Digital Wireless Crane Scale
Accuracy	n=3000
Input Signal	1.5~3mv/V
Converting Speed	10 times/second

### 2- Display

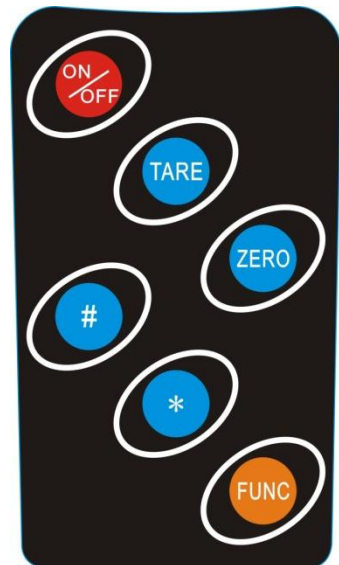
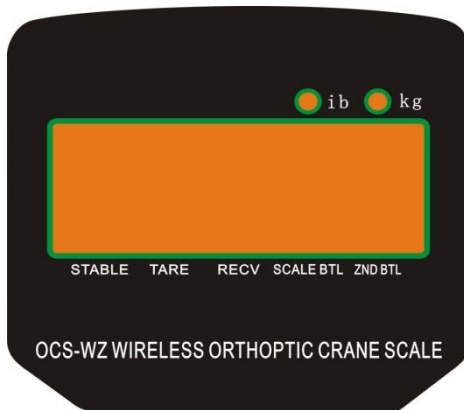
Display:	0~999999 5 digits LCD/LED, 7 indicators
Division Value:	1/2/5/10/20/50 (optional)

### 3- Ambient Environment

Distance between scale and indicator:	150m
Power Supply:	DC: 3.7V DC: 3.7v
Ambient Temperature:	0~40°C
Storing Temperature:	-25°C~55°C
Ambient Moisture:	≤85%RH
Warm-up Time:	10~15mins

## Chapter 2 Installation

### 2.1 Front view of the indicator



## 2.2 Key illustration

[FUNC]: In weighing status hold the key for more than 5s, it enters setup mode (All the settings in this mode should be recorded with the calibration header on; or the data will be lost.)

[Tare]: Tare function in weighing status.

[Zero]: Zero function in weighing status.

[\*]: For selecting.

[#]: For accumulation

[ON/OFF]: Press for 1 sec to turn ON;

Press for 3 sec to turn OFF.

## Chapter 3 Operation

### 3.1 Turning on

3.1.1 Turn on the power, the indicator performs a self-check and goes into weighing mode.

### 3.2 Operation

#### 3.2.1 [ZERO]

Press [ZERO] for zero return, indicator returns to zero within the zero range 2%FS.

Please make sure the stabilization light is on when there is no operation.

If obstruction occurs by more than 1 wireless indicator working at same time, you can open both indicator and scale, change the number of transcoder inside with same number and restart.

#### 3.2.2 [TARE]

In weighing mode, press [TARE] to deduct displayed weight while it is positive and stable light is on. At no-load status of the scale, press [TARE] to cancel the tare and the tare light turns off.

#### 3.2.3 Manual accumulation

In weighing mode, press [#], it displays ADD-01, "01" meaning times of accumulation (the Max times is 99 and then it will return to 01). After that, it will display the value of the accumulation for 3s and then goes back to normal weighing mode automatically.

#### 3.2.4 Check accumulation

In weighing mode, press [FUNC], it will display the number of times the accumulation function has been pressed and the value of the current accumulation. After that, it'll go back to the normal weighing mode automatically.

#### 3.2.5 Clear accumulation

In weighing mode, press [\*], it displays ADD--- and goes back to weighing mode which means: clear the current accumulation.

### 3.2.6 Parameter setup

In weighing mode, hold [FUNC] for more than 5s to enter setup mode. (P mode, all the settings in this mode should be recorded with the calibration header on; or the data will be lost.) P1~P10 parameters are available, press [\*] to switch between parameters or options, and press [Tare] to select parameter or option. Detail for parameter:

#### P1 Unit shift kg - Lb

X=1: kg mode (default)

X=2: Lb mode

#### P2 Power off automatically (no this function)

#### P3 Baud rate setup

X=1: 9600 (default)

X=2: 4800

X=2: 2400

X=2: 1200

#### P4 Option of net weight or gross weight output by RS232

X=1: net weight output (default)

X=2: gross weight output

#### P5 Option of outputting method of RS232

X=1: No transmission (RS232 stop) (default)

X=2: Continuous transmission

X=3: Continuous transmission when stable

#### P6 Power saving mode

X=1: No power saving (LED)

No backlight (LCD)

X=2: Power saving available (LED) (default)

Auto backlight (LCD)

X=3: None (LED)

Keep lighting (LCD)

#### P7 Zero-tracking Scope

X=1: 0.5e

X=2: 1.0e

X=3: 1.5e (default)

X=4: 2.0e

X=5: 2.5e

X=6: 3.0e

X=7: 3.5e

#### P8 Zero key Scope

X=1: 2%FS

X=2: 4%FS

X=3: 10%FS (default)

X=4: 20%FS

#### P9 Zero scope upon start

X=1: 2%FS

X=2: 4%FS

X=3: 10%FS (default)

X=4: 20%FS

#### P10 Digital filtering intensity

X=1: Fast (default)

X=2: Middle

X=3: Slow

P11 Stable time

- X=1: Fast (default)
- X=2: Middle
- X=3: Slow

P12 Stable extent

- X=1: Low
- X=2: Middle
- X=3: High (default)

P13 Select division value

X is the division value

**Press [Tare] to select division value, and then press [FUNC] to confirm.**

### Chapter 4 Calibration

Turn on the crane scale first, then hold key [#] and power on the indicator secondly, it enters calibration mode.

Step	Operation	Display	Explanation
1	Press [Tare] until the wanted division value appears	[d *]	Division value:1,2,5,10,20,50 optional, <b>press [#] to confirm</b> Ex.: 2
2	Press [Tare] until the wanted decimal point position appears	[P *]	Decimal point optional: "0","0.0","0.00","0.000", <b>press [#] to confirm</b> Ex.: 0.00
3	Setup F.S. (Full Scale Capacity)	[FULL ]	<b>Input F.S.:</b> Press [Tare] to choose the digit bit; press [Zero] to select the digit value; press [#] to confirm the input of the F.S. Ex.: 30000
4	Zero point calibration: Press [#] when the stable light is on	[No Load]	Assure there's no load on the crane scale
5	Load standard weights.		
6	F.S. calibration: (Press [#] directly if the value to be input is same as F.S. when stable light is on)	[Add Load]	<b>Input weight of standard weights loaded:</b> Press [Tare] to choose the digit bit; press [Zero] to select the digit value until the input value is same as the known loaded weight, press [#] to confirm when the stable light is on.
7	Calibration finished.		

1	Err 1	AD value is too small for calibration.
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2	Err 2	Zero point is out of range when calibrating.
3	Err 3	Zero point is out of range when powering on
4	Err 5	Weight input is 0 during full scale calibration
5	Bat-Lo	Indicator out of battery please charge
6	Err 8	Mistakes in inputting F.S.
7	Err 10	Resolving capability is too high
8	Err 11	Load-cell related issue
9	Err 13	Resolving capability is too high
10	Err 14	Damage inside indicator
11	Loch	Overloaded and locked

### Chapter 5 Error Indication

### Chapter 7 Chargeable Lithium Battery

- 6.1 Battery inside of scale is a Lithium battery. Please charge it after running for 7 hours the first three times of usage.
- 6.2 Please charge the battery only when the crane scale is not being used.
- 6.3 **The battery is an easily exhausted product. And it is not granted free guarantee.**

### Chapter 8 Maintenance

- 7.1 To guarantee indicator clarity and use life, the indicator shouldn't be placed directly under sunshine and should be set in plain sight.
- 7.2 The indicator can't be placed into an environment where dust, pollution and vibration are serious concerns.
- 7.3 The crane scale should connect with the indicator reliably. The system should be well connected to the ground. The indicator must be protected from high electrical field and high magnetic fields.
- ◆ In order to protect the operator, indicator and relevant devices, you should mount a lightning rod in thunderstorm possible areas.
- ◆ Load cell and indicator are static sensitive devices, you must adapt anti-static measures.
- 7.4 It is strictly forbidden to clean the case of indicator with intensive solvents (for example: benzene, acetone and nitro oils)
- 7.5 Liquid and conducting particles should not be poured into the indicator, otherwise the electronic components will be damaged and electric shock is likely to happen.
- 7.6 You should cut off power supply of indicator and relevant devices before you plug-in and out the connection to the power line of the indicator and/or external devices.
- ◆ You must cut-off power supply of indicator, before pulling out connection line of load cell.
- 7.7 During operation, if trouble occurs, operator must pull out the power supply plug immediately, and user should return this indicator to our company for repair. Non-weighing manufacturers or distributors should not repair it on their own, otherwise further damages may happen and guaranty will be voided.



7.8 The storage is not granted the free repair guaranty, because this is an easily exhausted product with sensitive parts.

- ◆ In order to prolong the life of the crane scale set, please charge the set fully before using it. If you don't use the indicator for a long time, you must at least charge the battery every two months and for a period of eight hours.
- ◆ Moving and installation must be done carefully and strong vibrations, impacts and bumps should be avoided in order to protect the load cell from being damaged.

7.9 From the invoice date, the indicator has a one-year free repair period. If any default happens to the indicator under correct usage conditions within this period the user is allowed to send the product back to our company for free repair or other appropriate measure. The indicator shouldn't be taken apart; otherwise free guarantee will be voided.

**DISCLAIMER WARNING**

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Those crane scales are designed to help the operator know the value of what they are lifting. However, Flexco Industries Inc. is not responsible for personal or property damage as a result of overloading the crane scale, misuse, abuse, tampering with the calibration, operating the crane scale without properly inspecting the scale and the handheld wireless indicator. It is the responsibility of the operator to read the manual carefully before using the crane scale.

It is mandatory to explain very carefully to every operator of this crane scale how it should be used. At the start of every shift and during the operation, the operator must visually inspect the condition of the crane scale, its hook, latch, pin, body, shackle, and its handheld wireless indicator.

Flexco Industries Inc. suggests opting for the crane scale with the same lifting capacity as your own overhead crane. The capacity of your crane scale should never be lower than the actual overhead crane's capacity.

The crane scale should not be used if the value displayed is not at zero when there is no load.

The crane scale should not be used if displayed load does not increase as load gets applied on the crane scale (we suggest doing a load test confirmation with a known weight before using the crane scale)

The crane scale and its handheld indicator contain electrical components therefore it should be handled with extreme care while being used and loading and unloading it from your overhead cranes hook.

The crane scale should not be used to pull something when not in vertical position. (Should not be used to side load)

The handheld display should be placed in a secure and known place when not being used.

The handheld display and its crane scale should be clearly identified in order to keep the sets together.

In order to achieve good connection between the handheld and the crane make sure there isn't any big obstructions in between both devices.

The hooks latch should always be closed when lifting any object. If the spring is worn out, replace it immediately. If the latch is sliding to the sides or is not properly closing, replace it immediately. When an object is being lifted is too big to close the latch, do not lift it using the crane scale.

Both components are not rated for waterproof applications.

The shackle of the crane scale should be properly inserted in the hook of the overhead crane and properly secured with the latch of the overhead crane's hook.