

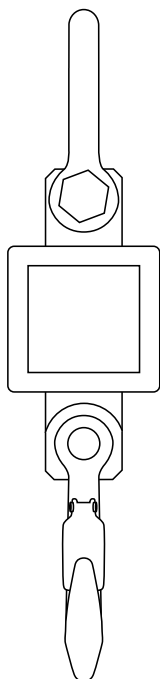


GRAM

SERIES

C7

3T / 5T / 10T



EN



OPERATION MANUAL



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ENGLISH

MAIN SPECIFICATION

Analog

Accuracy: n=3000
Input Signal: 1.5~3mv/V
Converting Speed: 10 times/second

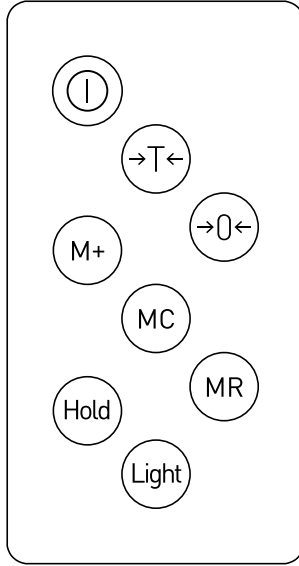
Display

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







Ambient Environment

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

FRONT AND BACK VIEW OF THE INDICATOR



KEYS FUNCTION


-  In weighing status hold the key for more than 5s, it enters setup mode (All the setting in this mode should be recorded with the calibration header on; or the data will lose).
-  Tare function in weighing status.
-  Zero function in weighing status.
-  For selecting.
-  Weighing accumulation
-  Long press for 1sec to turn on. Long Press for 3sec to turn off.

OPERATION

Turning on



Turn on the power, the indicator performs self-checking and go into weighing mode.

Zero function


Press  for zero return, indicator returns to zero within the zero range 2%FS. Please make sure the stabilization light is on when zero 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.


Tare

At weighing mode, press  to deduct displaying weight while it is positive and stabilization light is on. At no-load status of the scale, press  to deduct tare and then tare light is off.


Manual accumulation

At weighing mode, press , it displays “**ADD-01**”, “**01**” means times of accumulation (the Max times is 99 and then it will return to 01). After then it will display the value of accumulation for 3s and then back to normal weighing mode by itself.


Check accumulation



At weighing mode, press , it will display the times and the value of current accumulation, after then back to normal weighing mode automatically.

Clear accumulation

At weighing mode, press , it displays “ADD---” and back to weighing mode which means clear the current accumulation.

PARAMETERS SETUP

In weighing status, hold  for more than 5s and entering setup mode. (P mode, all the setting in this mode should be recorded with the calibration header on; or the data will lose.)

P1~P13 parameters are available, press  to switch, and press  to select parameter. Detail for parameter:

1. P1 **x** kg Lb shift
 X=1: kg mode (default)
 X=2: Lb mode

2. P2 **x** Not available for this model

3. P3 **x** Baud rate setup
 X=1: 9600 (default)
 X=2: 4800
 X=2: 2400
 X=2: 1200

4. P4 x Not available for this model

5. P5 x Not available for this model

6. P6 x Power saving mode
X=1: No power saving
X=2: Power saving available
X=3: None

7. P7 x 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

8. P8 x Zero key Scope
X=1: 2%FS
X=2: 4%FS
X=3: 10%FS (default)
X=4: 20%FS

9. P9 x Zero scope upon start
X=1: 2%FS
X=2: 4%FS
X=3: 10%FS (default)
X=4: 20%FS

10. P10 x Digital filtering intensity

X=1: Fast (default)

X=2: Middle

X=3: Slow

11. P11 x Stabile time

X=1: Fast (default)

X=2: Middle

X=3: Slow

12. P12 x Stabile extent

X=1: Low

X=2: Middle


X=3: High (default)





13. P13 x Select division value









X is division value

Press  to select division value, then press  to confirm.

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  to choose division value (several times)	[d *]	Division value: 1, 2, 5, 10, 20, 50 optional, press  to confirm e.g.: 2
2	Press  to choose decimal point position (several times)	[P *]	Decimal point optional: "0", "0.0", "0.00", "0.000", press  to confirm. e.g.: 0.00

3	Setup F.S.	[FULL]	Input F.S.: Press  to choose the digit bit; press  to select the digit; press  to confirm the input F.S. e.g.: 30000
4	Zero point calibration: Press  when the stable light is on	[noLoAd]	Assure there's no loading
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)	[AdLoAd]	Input weight of standard weights loaded: Press  to choose the digit bit; press  to select the digit. Until the input value is same as the loaded weight and the digit bit is at the highest bit, press  to confirm when the stable light is on.
7	Calibration finished.		

ERROR INDICATION

1	Err 1	AD value is too small when calibration.
2	Err 2	Zero point is out of range when calibration.
3	Err 3	Zero point is out of range when power on
4	Err 5	Weight input is 0 when 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 problem
9	Err 13	Resolving capability is too high
10	Err 14	Damaged inside indicator
11	Loch	Overload and locked

RECHARGEABLE LITHIUM BATTERY

Battery inside of scale is Lithium battery. Please charge it after running down for 7 hours the first three times. Please charge the battery for timing if not use it often.

The battery is an easily exhausted product. And it is not granted free guarantee.

MAINTENANCE

1. To guarantee indicator clarity and using life, the indicator shouldn't be placed directly under sunshine and should be set in the plain space.
2. The indicator can't be placed into the place where the dust pollution and vibration are serious.
3. Load cell should connect with indicator reliably, and the system should be well connected into ground. The indicator must be protected from high electrical field and high magnetic field.
In order to protect the operator, indicator and relevant device, you should mount lightning rod in thunderstorm frequently happening area.
 - Load cell and indicator are static sensitive device, you must adopt anti-static measures.
4. It is strictly forbidden to clean the case of indicator with intensive solvents (for example: benzene and nitro oils).

5. Liquid and conducting particle should not be poured into the indicator, otherwise the electronic components will be damaged and electric shock is likely to happen.
6. You should cut off power supply of indicator and relevant device before you pull –in and out the connecting line of indicator and external device.
 - You must cut off power supply of indicator, before pulling out connecting line of load cell.
7. During operation, if trouble occurs, operator must pull off the power supply plug immediately, and user should return this indicator to our company for repair.

Non-weighting manufacturer should not repair it, or by your-self, otherwise further destruction may happen.
8. The storage is not granted the free repair guarantee, because it is easily exhausted products.
 - In order to prolong using life, please charge the cell fully before using it. If you don't use the indicator for a long time, you must charge the cell every two month and for eight hours/each charging time.
 - Moving or installation must be carefully taken and must avoid strong vibration, impact and bump in order to protect the storage cell from being damaged.
9. From invoice date, the indicator has a one-year free repair period. If any non-artificially obstacle about the indicator happens under correct using conditions within this period. The user is allowed to send the product with its guarantee card (of the correct number).

Back to our corporation for free repair. The indicator shouldn't be taken apart, otherwise free guarantee will be cancelled.

GUARANTEE

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

During this period, **GRAM PRECISION, SL**, covers the manpower and the spare parts necessary to repair the scale.

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 balance.

NOTES



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