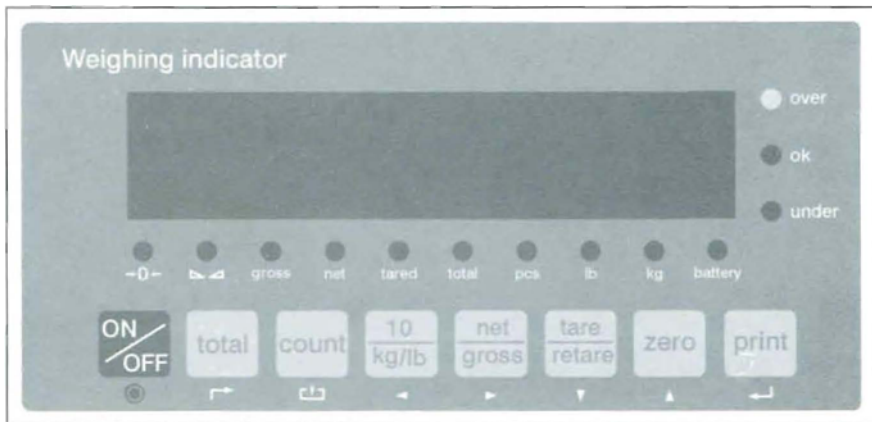


SE7510

Digital Weight Indicator

Operating Manual



Edition:01-081008








LOADMASTER Scale Mfg

420 E. Lincoln St., Findlay, Ohio 45840 Phone:800-637-3326

1. Calibration operation

1.1 Calibration and key function in application

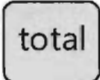

In order to make the operation simpler, there are many arrow key below each key for some meaning.

-  **Back:** back to last step
-  **Exit:** back to the main menu.
-  **Left:** move cursor to left
-  **Right:** move cursor to right
-  **Up:** Add value or choice up
-  **Down:** Decrease value or choice down
-  **Enter:** confirm and go to next step

1.2 Calibration

Before calibration. Pls. make sure the the indicator switch CAL is on. The connection between load cell and indicator is ok. and scales calibration is ok.

1.2.1 Calibration menu

Press  and  until display C01

Press  [C1 1]. Use   to choose the unit

Optional unit:

[C1 1] = kg

[C1 2] = lb

Press  enter to C02

C02 Decimal points setting C02



Press go to [0] choose the decimal digits. Use ↑ ↓

to choose the decimal digits.

optional decimal digits:

[0] = no decimal point

[0.0] = one decimal point

[0.00] = two decimal point

[0.000] = three decimal point

[0.0000] = four decimal point



Press go to next step [C03]

C03 Division setting.



Press go to [C3 1]. Set the division. Use ↑ ↓ choose

the division needed.

Optional division:

[C3 1] division = 1

[C3 2] division = 2

[C3 5] division = 5

[C3 10] division = 10

[C3 20] division = 20

[C3 50] division = 50



Setting finish, press and save setting. Enter to [C04]

C04 Max. capacity choose C04



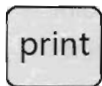
Press go to [000000] set the max.. capacity. Use ← →

Shift the cursor. And ↑ ↓ to adjust the value. Finish the setting and



press go to next step [C05].

C05 Dead load calibration



Press enter [C5 0]. Giving up the dead load calibration or perform the dead load calibration. And use ↑ ↓ to adjust the value.

Optional result:

[C5 0] no empty scales calibration

[C5 1] perform dead load calibration

Confirm performing dead load calibration. Pls. empty scales firstly. Set [C05 1]



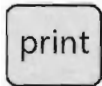
Press . Display [CAL 10]----[CAL 0]. Calibration count down.



Then. Display [0.00] (two decimal points means ok)Press

enter [C06]

C06 Capacity span calibration



Press enter [C6 0]. Choose capacity span calibration. Use

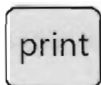
↑ ↓ to choose whether perform the capacity span calibration.

Option

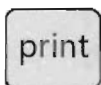
[C6 0] No capacity calibration

[C6 1] Perform capacity span calibration

Confirm to perform the capacity span calibration. Set [C6 1].
Add the weight on the scales. recommend use weights above 60%
of the Max. capacity.



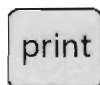
Press Display [SPAN] firstly. Then display[000000].
capacity. Use ← → Shift the cursor. And ↑ ↓ to adjust the
weights.



Press . Display [CAL 10]----[CAL 0]. Capacity calibration
count down. When the count down finish. Display the weight of the added
weights. Calibration is over.



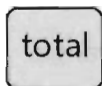
Press enter [C07]. If you want to exit. Press then
back to weighing status.



Note: when calibration is finish. Pls. turn the CAL to off position.

2. Application environment parameter setting


After calibration. if not exit You could go on with [C07] setting




If already exit the menu. Press and go to
parameter setting menu. use ↑ ↓ to adjust the parameter to [C
07].

C07 Zero setting range

A rectangular button with rounded corners and a thin border, containing the word "zero" in a bold, sans-serif font.

Press the  key or the option function I/O card to connect the zero signal and set the gross weight in the acceptable arrange to zero

A rectangular button with rounded corners and a thin border, containing the word "print" in a bold, sans-serif font.

Press  enter [C7 0]. Choose the zero arrange. Use ↑ ↓ to select the range.
option:

[C7 0] = no initial zero setting

[C7 2] = 2% Max. capacity


[C7 4] = 4% Max. capacity

[C7 5] = 5% Max. capacity

[C7 10] = 10% Max. capacity

[C7 20] = 20% Max. capacity


A rectangular button with rounded corners and a thin border, containing the word "print" in a bold, sans-serif font.

Press  to save the setting. Enter [C08]

C08 Initial zero setting range

When switching on the indicator, the gross weight within the initial zero setting range can be zero automatically.

A rectangular button with rounded corners and a thin border, containing the word "print" in a bold, sans-serif font.

Press . Enter [C8 0]. And choose the initial zero setting range. Use ↑ ↓ to select the range

Initial zero setting range:

[C8 0] = no initial zero setting

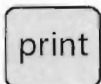
[C8 2] = 2% Max. capacity

[C8 4] = 4% Max. capacity

[C8 5] = 5% Max. capacity

[C8 10] = 10% Max. capacity

[C8 20] = 20% Max. capacity



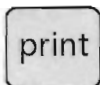
Press . Save the setting. Enter [C09]

Note: Initial zero range can not bigger than zero setting range

C09 Automatic zero tracking range

Automatic zero tracking range is for compensating the change caused by temperature or by the little missed material on the scales. It take the d as the basic unit for setting.

=



When in [C09] menu. press enter [09 0.5]. choose the automatic zero tracking range. Use ↑ ↓ to select the range

Options:

[C9 0.0] = no initial zero setting

[C9 0.5] = $\pm 0.5d$

[C9 1.0] = $\pm 1.0d$

[C9 1.5] = $\pm 1.5d$

[C9 2.0] = $\pm 2.0d$

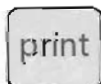
[C9 2.5] = $\pm 2.5d$

[C9 3.0] = $\pm 3.0d$

[C9 3.5] = $\pm 3.5d$

[C9 4.0] = $\pm 4.0d$

[C9 5.0] = $\pm 5.0d$




Press . Save the setting. Enter [C10].

Note: Initial zero range can not bigger than zero setting range

C10 Automatic zero tracking time

Automatic zero tracking time determine the time interval between the two times automatic zero tracking.

When in [C 10] menu. Press  enter [C10 1] select the automatic zero tracking time. Use ↑ ↓ to select the range


Time setting options

[C10 0] = no automatic zero tracking time

[C10 1] = 1 second


[C10 2] = 2 seconds

[C10 3] = 3 seconds

Press . Save the setting. Enter [C11].

C11 Overload range

Over load range take d as the basic unit


When in [C 11] menu. Press  enter [C11 09] Use ← → Shift the cursor. And ↑ ↓ input the overload range.

Over load range: 0~99d

[C11 00] =no overload range

•
•
•

[C11 99] = means 99d

Press  to save the setting. Enter [C12].

C12 Negative display range

Set the indicator negative display range. Negative display range 0 means basic setting unit is “d”. and set other options % Max. capacity.



When in [C12] menu. Press enter [12 10]. Use ← → Shift the cursor. And ↑ ↓ input the negative display range.

Negative display range:

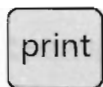
[C12 0] = -9d

[C12 10] = 10% Max. capacity

[C12 20] = 20% Max. capacity

[C12 50] = 50% Max. capacity

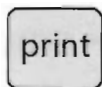
[C12 99] = 100% Max. capacity



Press to save the setting. Enter [C13].

C13 Digital filter 1

The value bigger, the digital filter is stronger and data is more stable. But the update time is slower.



In [13] status. Press enter [C13 3]. Use ↑ ↓ input the digital filter option.

Digital filter 1option

[C13 0] =close digital filter 1

[C13 1] = 1 digital filter strength

[C13 2] = 2 digital filter strength

[C13 3] = 3 digital filter strength

[C13 4] = 4 digital filter strength

[C13 5] = 5 digital filter strength

[C13 6] = 6 digital filter strength



Press  save the setting. Enter next step [C 14]

Note: Don't set the digital filter 1 in normal weighing. It only for animal weighing or other goods in moving. Refer to the Animal scales operation in user's manual.

C14 Digital filter 2



In [C14] status, press  enter [C14 2]. Use ↑

↓ input the digital filter option.

Option for digital filter 2


[C14 0] = close digital filter 2

[C14 1] = 1 digital filter strength

[C14 2] = 2 digital filter strength

[C14 3] = 3 digital filter strength



Press  to save the setting. Enter next step [C 15]

C15 Standstill time

Determine the time of the scales from moving to standstill Status within the standstill range.



In [C15] status. Press  enter [C15 1], Use ↑ ↓

input the options

Standstill time options:

[C15 0] = close the standstill time

[C15 1] = 1 second

[C15 2] = 2 seconds

C16 Standstill range

Standstill range determine when the scales is in standstill status. when the scales not in standstill status. zero. Tare and print operation is prohibited.

C17 Power saving mode

For power saving, weight keep stable till no any change for the Automatic shutting off time. The indicator will show shut off automatically. Press any key or change the weight can wake up the indicator display.



In [17] status. Press  enter to [C17 0]. Use ↑

↓ input the options needed.


Automatically shut off time options:

[C17 0] = shut off the saving power mode

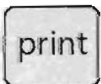
[C17 1] = 3 minutes


[C17 2] = 5 minutes




Press  to save the setting. Go to next step [C18]

C18 Reserved and no function




Press  and go to next step [C 19]

C19 Reserved and no function


Press  and go to next step [C 20]

C20 Open Upper limit alarm value


Set the upper limit alarm value and lower limit alarm value can control the I/O card output signal.

In [C 20] status. Press  enter [0000.00]. Use ← → Shift the cursor. And ↑ ↓ input the open upper limit alarm value.


Setting range: Random setting within the full range

Setting finish then press  to save the it. Go to next step [C21]

C21 Shut off Upper limit alarm value

In [C21] status. press  enter[0000.00] and Use ← → Shift the cursor. And ↑ ↓ input stop the upper limit alarm value.

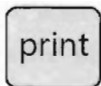
Setting range: Random setting within the full range.

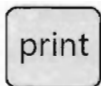
Setting finish then press  to save the input setting. Go to next step [C22]

C22 Open lower limit alarm value

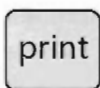
In [C22] Status. Press  go to [0000.00]. and Use ←

→ Shift the cursor. And ↑ ↓ input the upper limit alarm on value.
Setting range: random setting within full range



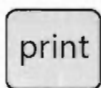
Setting finish. Press  and save the setting. Go to next step [C23]

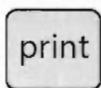
C23 Lower limit alarm off value



In [C23] status, press  go to [0000.00] and Use ← →

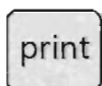
Shift the cursor. And ↑ ↓ input the upper limit alarm off value.
Setting range: random setting within full range

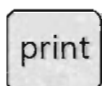


Setting finish. Press  and save the setting. Go to next step [C24]

Note: upper limit alarm and lower limit alarm value setting method refer to “classifying scales operation” in the “user’s manual”.


C24 Reserved and no function



Press  and go to next step [C 25]


C25 Reserved and no function



Press  and go to next step [C 26]

C26 Reserved and no function



Press  and go to next step [C 27]

C27 Serial interface data output method

When the indicator equipped with RS232. RS232 interface connect different serial interface communication terminals equipment, set serial interface data output method.



In [C27] in statue, press enter [C27 0]. Go to data output setting. Use ↑ ↓ to set input and output data

Data output options

[C27 0] =Close serial interface data output

[C27 1] = Continuous sending (connect big display)

[C27 2] = Printing method, (connect the printer)

[C27 3] = Command request method (connect computer)



Press ,save the setting and go to next step[C28]

C28 Serial interface baud rate.

Baud rate is the information sending speed. And when RS232 interface connect with different serial interface communication terminals. The baud rate should keep the same.



In [C28] status, press enter [C28 3]. Choose serial interface baud rate. Use ↑ ↓ input the serial interface.

C29 Bit and parity



In [C29] status, Press go to [C29 0], Set bit and parity, Use ↑ ↓ input the bit and parity

Option:

[C29 0] = 8 bit, none parity (8, none)

[C29 1] = 7 bit, even parity (7, even)

[C29 2] = 7 bit, odd parity (7, odd)



Press . Save setting. And go to next step[C30]

C30-C37 Reserved and no function



Press and go to next step [C 38]

C38 Date

According to the user's need, if connect with printer, we need update the date in the first time and every time restart it



In [C38] status, Press go to [000000], setting the date.

and Use ← → Shift the cursor. And ↑ ↓ input year, month and day,

C39 TIME

Real-time clock settings can be set: hours, minutes and seconds



In [C 39] statue, press Press go to [000000], setting the time.

and Use ← → Shift the cursor. And ↑ ↓ input hours. Minutes and seconds

for example: the time is:15:28:30 then set [152830]



after setting finish. Press and save the input time. Go to next step[C40]

C40 To restore the default values

In [C40] statue, press  go to [C40 0], restore the default values. Use ↑ ↓ input the options

Options:

[C40 0]= NO restore default value

[C40 1]= Restore default value

After finish it, if confirm to restore default value. Press 

Indicator will automatically restore all the parameter to the original default value.

Note: Pls. not restore the default value without the professional technicians and calibration.

Default value

parameter	instruction	Default value
C01	Calibration unit	1
C02	Decimal digits	0
C03	resolution	1
C04	Max. capacity	10000
C05	Empty scales calibration	0
C06	Capacity calibration	0
C07	Zero setting range	2
C08	Initial zero setting range	2
C09	Automatic zero tracking range	0.5
C10	Automatic zero tracking time	1
C11	Overload range	9
C12	Negative display range	10
C13	Digital filter 1	0
C14	Digital filter 2	2
C15	Standstill time	1
C16	Standstill range	2
C17	Power saving mode	0
C20	Upper limit alarm on value	000000
C21	Upper limit alarm off value	000000
C22	Lower limit alarm on value	000000
C23	Lower limit alarm off value	000000
C27	Communication protocol of Serial interface	0
C28	Baud rate of serial interface	3
C29	Bit and parity	0
C38	Date	000000
C39	Time	000000
C40	Default parameter	0

Default value

parameter	instruction	Default value
C01	Calibration unit	1
C02	Decimal digits	0
C03	resolution	1
C04	Max. capacity	10000
C05	Empty scales calibration	0
C06	Capacity calibration	0
C07	Zero setting range	2
C08	Initial zero setting range	2
C09	Automatic zero tracking range	0.5
C10	Automatic zero tracking time	1
C11	Overload range	9
C12	Negative display range	10
C13	Digital filter 1	0
C14	Digital filter 2	2
C15	Standstill time	1
C16	Standstill range	2
C17	Power saving mode	0
C20	Upper limit alarm on value	000000
C21	Upper limit alarm off value	000000
C22	Lower limit alarm on value	000000
C23	Lower limit alarm off value	000000
C27	Communication protocol of Serial interface	0
C28	Baud rate of serial interface	3
C29	Bit and parity	0
C38	Date	000000
C39	Time	000000
C40	Default parameter	0