

7000XL Quick Calibration Guide

Download the complete manual at
www.doranscales.com/7000xlmanual.pdf

Entering Calibration and Parameter Setup Mode

Front Panel Access

1. Press and hold ZERO and UNITS simultaneously until the audit counters are displayed.
2. $\text{E}n\text{t}$ $\text{C}d$ is displayed
3. Press ZERO 5 times, so that 5 is displayed,
4. Press UNITS

Internal Calibration Button

The calibration push button is located near the center of the board and labeled CAL. Press this button to enter calibration and setup.

Exit Calibration and Parameter Setup Mode

Front Panel Access

1. Press UNITS until the display reads 9 $\text{d}n\text{E}$.
2. Press the ZERO button
3. The display reads $\text{d}n\text{E}$ n
4. Press the ZERO button
5. The display reads $\text{d}n\text{E}$ y
6. Press UNITS to return to the run mode
7. Display reads $\text{5R}u\text{E}d$ to confirm changes are saved to memory

Internal Calibration Button

The calibration push button is located near the center of the board and labeled CAL. Press this button to exit calibration and setup and save settings.

Set Scale Capacity

The Capacity selection is displayed after entering the Calibration and Setup mode.

1. 1 $\text{C}R\text{L}$ is displayed
2. Press ZERO
3. The display will alternate between $\text{C}R\text{P}$ $\text{R}u$ and the currently selected capacity
4. Press ZERO to change the capacity
5. The units annunciator will flash indicating the unit of measure for the capacity. Press ZERO to change the unit of measure if required.

6. Press PRINT
7. The right most digit will flash. Press ZERO to change this number from 0 to 9.
8. Press PRINT to move to the next digit to the left.
9. Repeat until all digits have been set to the desired scale capacity.
10. Once the digits have been set, the display will return to alternately displaying $\text{C}R\text{P}$ $\text{R}u$ and the new capacity value.

Set Scale Count By

After the capacity has been entered, count by (resolution) will automatically be set for a legal for trade 5000 division level.

1. After calibration, press UNITS.
2. The display will alternate between $\text{C}n\text{t}$ $\text{b}y$ and the current count by
3. Press ZERO to select the desired count by
4. To exit and save changes, press UNITS until $\text{d}n\text{E}$ n is displayed.
5. Press ZERO
6. $\text{d}n\text{E}$ y will be displayed
7. Press UNITS to return to the run mode

Calibration

After count by has been set, calibration is required

1. Press UNITS until $\text{C}R\text{L}$ C appears on the display
2. Remove all weight from the scale platform
3. Press ZERO and wait for the display to count down to 0
4. The display will alternate between $\text{C}R\text{L}$ $\text{F}5$ and the scale capacity
5. Place the calibration weight on the scale platform (2% of capacity to full capacity)
6. If calibrating at scale capacity, press ZERO to begin calibration and move to step 12. If not calibrating at the scale capacity, continue to step 7.
7. Press PRINT
8. The right most digit will flash. Press ZERO to change this number from 0 to 9.
9. Press PRINT to move to the next digit to the left

10. Repeat until all digits have been set to the desired calibration weight
11. Press PRINT and the calibration process will begin and the display will count down to zero.
12. The display will momentarily display $\text{d}n\text{E}$, followed by $\text{5R}u\text{E}d$ and return to the normal weighing mode
13. Verify scale calibration

Parameter Groups

Parameters are divided into eight groups. Each group contains related parameters.

Following is the list of the parameter groups:

1 $\text{C}R\text{L}$	Capacity and Calibration
2 $\text{C}n\text{F}9$	General Settings
3 $\text{5E}r$ 1	Serial port #1
4 $\text{5E}r$ 2	Serial port #2
5 $\text{E}t\text{h}$	Ethernet
6 $\text{w}i\text{F}$ i	Wireless Ethernet
7 $\text{b}t$	Bluetooth
8 $\text{u}S\text{b}$	USB

Common Parameters

1 $\text{C}R\text{L}$	
$\text{C}R\text{P}$ $\text{R}u$	Scale capacity
$\text{C}n\text{t}$ $\text{b}y$	Weight division size
$\text{C}R\text{L}$ C	Calibration
2 $\text{C}n\text{F}9$	
$\text{u}n$ $\text{t}5$	Start-up units
$\text{t}b\text{y}$	Automatic off Timer

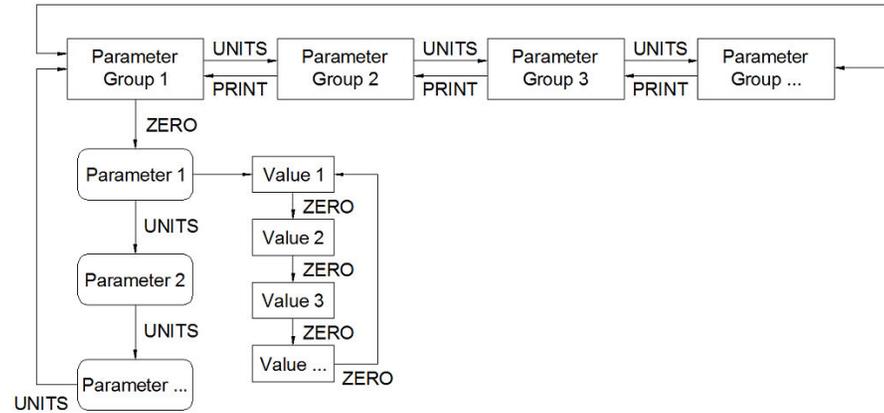
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	4 wire load cell	6 wire load cell
J1 Jumper	In	Out
J2 Jumper	In	Out

Load Cell Input (TB1)		
	Description	Load Cell Color
+ SIG	+ Signal	Red
- SIG	- Signal	White
+ EX	+ Excitation	Green
- EX	- Excitation	Black
+ SEN	+ Sense Signal	Blue
- SEN	- Sense Signal	Brown

Calibration Error Codes	
Code	Solution
ERR	The calibration zero is out of range. Press ZERO to clear error. Refer to the Scale Calibration Error Troubleshooting section.
ERR	The calibration span is in a negative range. Check polarity of load cell connection and repeat calibration.
SPAN E	The calibration span is out of range. Press ZERO to clear this error. Refer to the Scale Calibration Error Troubleshooting section.
ERR	The scale is sensing an unstable weight. Remove any vibration or air currents to continue calibration.

Menu Navigation



Board Connections

