

Averaging / Dynamic Weighing: Basic, Count, Count+, Smart+

The dynamic weighing function determines the average weight of a moving sample. The feature is useful for weighing live animals and other samples that cannot be kept stable. Two demos are provided: one for the Basic / Count / Count+ and another for Smart+.

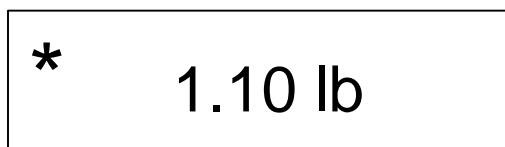
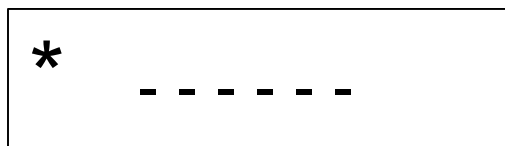
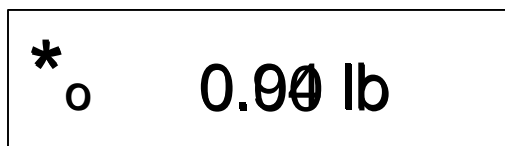
Basic / Count / Count+

Dynamic weighing in these models is an application selection under Supervisor access setup. If selected the scale is used exclusively for dynamic weighing / counting, counting not available with the “Basic” model. For static weighing (normal weighing) the dynamic weighing application must be set to “off”.

To use the dynamic weighing feature, it must first be enabled in the menu. Enter the setup menu and navigate to Application/Dynamic. The feature may be set: Off; Auto Start; or Manual Start. For this demo, we will use dynamic weighing in auto start mode.

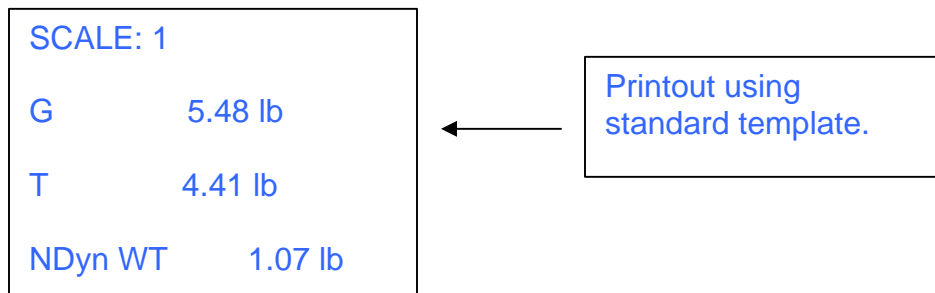
The display gives two visual indications that dynamic weighing is enabled. A mouse icon appears at the lower right of the screen, and an asterisk appears at the far left to indicate that the displayed weight is a calculated value.

Place a load on the scale, the stability ring will show beneath the asterisk if the weight is unstable. After approximately 4 seconds the average weight value is calculated and displayed. The display remains locked until the load is removed from the scale.



Procedure using auto start with a tare container (auto-clear tare must be set to “no” in setup).

- Place the empty container on the scale.
 - The scale automatically averages the weight.
- Touch the TARE key to tare the empty container.
 - The scale will tare and show 0 net weight.
- Remove the empty container and load the sample inside the container.
- Place the loaded container back onto the scale.
 - The scale automatically averages the net weight.
- For printer applications, touch the print key.



How to setup for Dynamic Weighing with Auto Start?

In Supervisor setup:



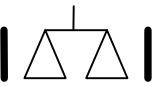






Applic / Average / Auto / off key / End – touch print key / Save – touch print key.

Smart+



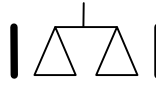






Averaging Weighing: In the Averaging Weighing mode the Smart+ displays the weight averaged over approximately 10 seconds. The Averaging Weighing feature is useful for unstable loads, either weighing or piece counting.

In our demo we will replace the Big Display softkey with the Averaging Weighing Softkey.


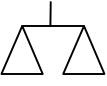
In our demo the Stability detector ring is "on" indicating unstable weight reading.

N	0.486 lb				
T	0.000 lb				
G	0.486 lb				
	Smpl 10	Smpl n	APW	Unit	Average
					

After starting the Averaging process the weight display will switch to dashes and the asterisk illuminates indicating that the display is a converted value (in this case an averaged value).

N	-----				
T	0.000 lb				
G	0.486 lb				
	Smpl 10	Smpl n	APW	Unit	Average
					

After approximately 10 seconds the Averaged value (weight or count) will be displayed.

N 0.486 lb T 0.000 lb G 0.486 lb				<div style="border: 1px dashed black; padding: 5px; display: inline-block;"> 0.491 lb </div>	
	Smpl 10	Smpl n	APW	Unit	Average
▲	▲	▲	▲	▲	▲

To clear the Averaged value, simply unload the scale and the display will return to normal. The Averaging weighing is constrained to +/- 10% of the applied load, so anytime the weight changes by more than 10% the Averaging function is terminated.

How do I assign “Averaging Weighing” to softkey 6?

Supervisor Setup:

Application / Softkeys / Softkey 6 / Edit / Averageweighing / OK / UP / End / Save – Yes.

End of Demo.