Series 500
Digital Weight Indicator

AUTO HOLD
USER MANUAL ADDENDUM

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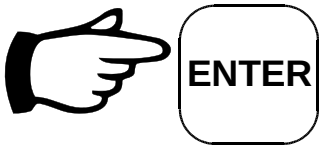
2. Overview

The 500 series Digital Indicators can be programmed to automatically lock a stable weight on the display and hold it as long as it is valid. This is useful when weighing live animals or containers in motion as they cross the scale. Parameters can be set to ignore minor weight fluctuations during and after **Auto Hold** calculations. **Auto Hold** feature removes the need for an operator to push a key on the indicator in order to begin the averaging calculation process.

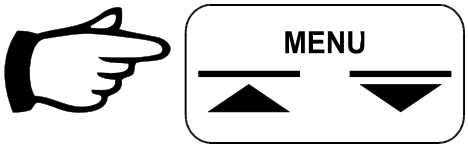
2.1 Auto Hold Menu

The **Auto Hold** sub-menus are used to set the parameters governing the behaviour of the **Auto Hold** feature. Stability and Sensitivity parameters are used to govern the calculations necessary to determine a stable weight reading.

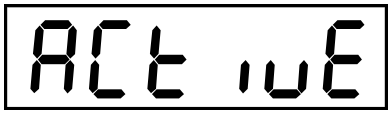
1. From the main menu list, navigate to the **Auto Hold** menu and press the **ENTER** key.



2. Using the **UP** and **DOWN** keys, navigate to the desired menu.

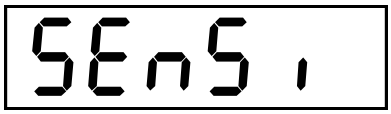


Activates the **Auto Hold** feature. See section 2.1.1 on page 4

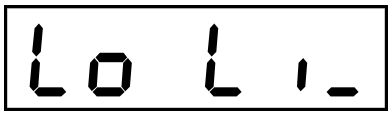


Sets the **Stability Factor** for the **Auto Hold** calculations. See section. See section 2.1.2 on page 5.

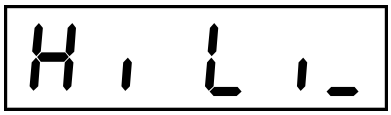
Sets the **Sensitivity Factor** for the **Auto Hold** calculations. See section 2.1.3 on page 6.



Sets the **Low Limit** for **Auto Hold** readings. See section 2.1.4 on page 7.



Sets the **High Limit** for **Auto Hold** readings. See section 2.1.5 on page 8.



Sets the **Tracking Compliance** tolerance for **Auto Hold** calculations. See section 2.1.6 on page 9.

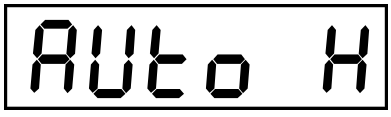
Sets the **Lock Compliance** tolerance for maintaining a “Locked” value. See section 2.1.7 on page 10.

Enables the **Remote Hold Break** feature. See section 2.1.8 on page 11.

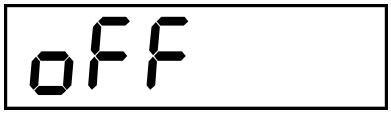
Enables the **Auto Save** feature. See section 2.1.9 on page 12.

2.1.1 Auto Hold Active

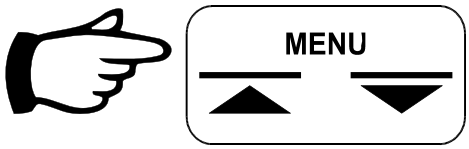
1. From the **Active** menu, press the **ENTER** key.



The current **Auto Hold** setting is displayed. All status indicators flash.



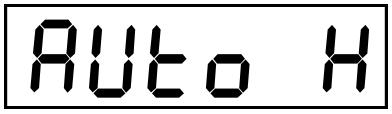
2. Use the **UP** and **DOWN** keys to change the setting as required.



3. To accept the new setting, press the **ENTER** key.

4. To discard the new setting, press the **EXIT** key.

Display shows the **Auto Hold** menu.



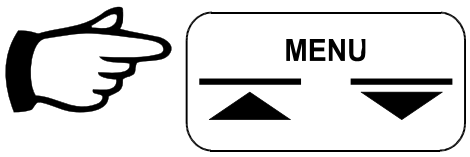
2.1.2 Stability

Stability parameter is a time factor used in determining that a weight is stable. A larger time factor will slow the **Auto Hold** calculations but will result in a more accurate reading.

1. From the **Active** menu, press the **ENTER** key.

The current **Stability** setting is displayed. All status indicators flash.

2. Use the **UP** and **DOWN** keys to change the setting as required.



3. To accept the new setting, press the **ENTER** key.

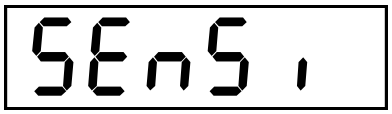
4. To discard the new setting, press the **EXIT** key.

Display shows the **Stability** menu.

2.1.3 Sensitivity

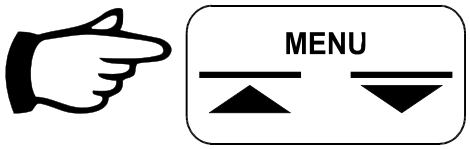
Sensitivity parameter sets the variation factor permitted during calculation of a stable weight. A smaller Sensitivity will take more time but will give more accurate readings.

1. From the **Sensitivity** menu, press the **ENTER** key.



The current **Stability** setting is displayed. All status indicators flash.

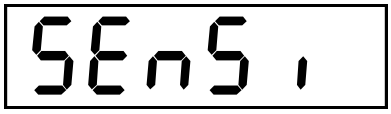
2. Use the **UP** and **DOWN** keys to change the setting as required.



3. To accept the new setting, press the **ENTER** key.

4. To discard the new setting, press the **EXIT** key.

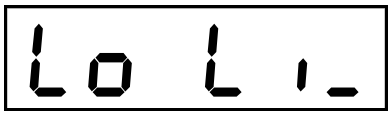
Display shows the **Sensivity** menu.



2.1.4 Low Limit

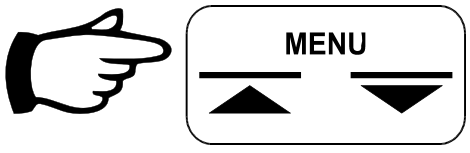
Auto Hold calculations will not be done when weight readings are below the **Low Limit.** Set this parameter to a reasonable value for the application, ie: when weighing large animals such as cattle in the 500 lb range, set the limit to 300 lb. This will ensure that a cowboy stepping onto the chute will not activate the **Auto Hold** feature. When weighing hogs or sheep set the parameter to approximately 50 lb so that an animal bumping the cage will not activate the **Auto Hold**.

1. From the **Low Limit** menu, press the **ENTER** key.



The current **Stability** setting is displayed. All status indicators flash.

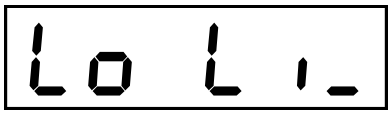
2. Use the **UP** and **DOWN** keys to change the setting as required.



3. To accept the new setting, press the **ENTER** key.

4. To discard the new setting, press the **EXIT** key.

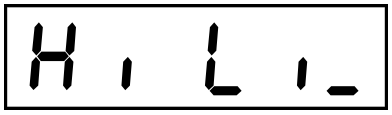
Display shows the **Low Limit** menu.



2.1.5 High Limit

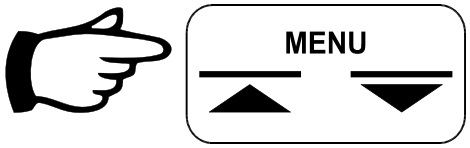
Auto Hold calculations will not be done when weight readings are above the **High Limit.** This parameter can be used to prevent **Auto Hold** from registering the weight of two animals stepping onto the scale at the same time. Set the parameter to a value approximately 50% above the working range for the application.

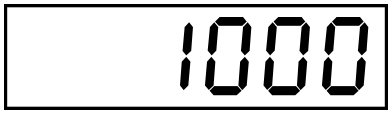
1. From the **Low Limit** menu, press the **ENTER** key.



The current **Stability** setting is displayed. All status indicators flash.

2. Use the **UP** and **DOWN** keys to change the setting as required.

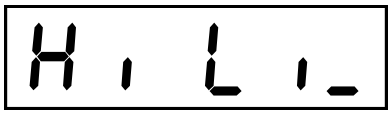




3. To accept the new setting, press the **ENTER** key.

4. To discard the new setting, press the **EXIT** key.

Display shows the **Low Limit** menu.



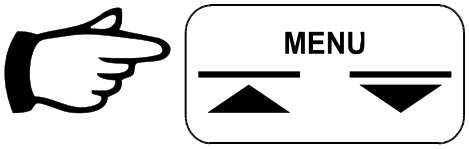
2.1.6 Track Compliance

Track Compliance parameter allows a small number of consecutive high or low weight readings to be ignored during **Auto Hold** calculations. This allows short "peaks or valleys" in the weighing process to be removed to speed the weighing calculations.

1. From the **Track Compliance** menu, press the **ENTER** key.

The current **Track Compliance** setting is displayed. All status indicators flash.

2. Use the **UP** and **DOWN** keys to change the setting as required.



3. To accept the new setting, press the **ENTER** key.

4. To discard the new setting, press the **EXIT** key.

Display shows the **Low Track Compliance Limit** menu.

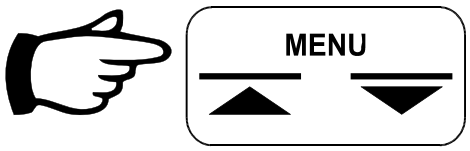
2.1.7 Lock Compliance

Lock Compliance parameter allows a small number of consecutive high or low weight readings to be ignored after **Auto Hold** calculations are complete and a number has been locked onto the display. This allows for a legitimate change or "shift" in weight to be recorded properly by restarting the **Auto Hold** calculations.

1. From the **Lock Compliance** menu, press the **ENTER** key.

The current **Track Compliance** setting is displayed. All status indicators flash.

2. Use the **UP** and **DOWN** keys to change the setting as required.



3. To accept the new setting, press the **ENTER** key.

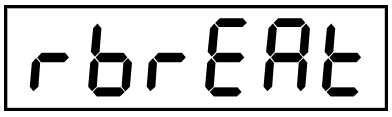
4. To discard the new setting, press the **EXIT** key.

Display shows the **Lock Compliance** menu.

2.1.8 Remote Communication Break

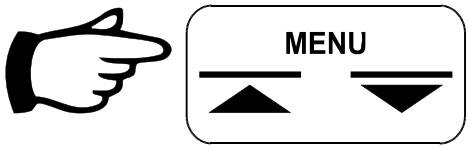
When communicating with other devices such as controllers or computers it may be necessary to interrupt **Auto Hold** calculations to permit incoming communication to proceed. It is recommended that this parameter be left **ON** for most applications.

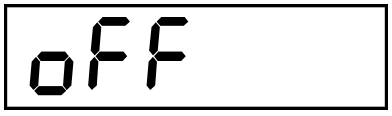
1. From the **Lock Compliance** menu, press the **ENTER** key.



The current **Track Compliance** setting is displayed. All status indicators flash.

2. Use the **UP** and **DOWN** keys to change the setting as required.





3. To accept the new setting, press the **ENTER** key.

4. To discard the new setting, press the **EXIT** key.

Display shows the **Lock Compliance** menu.

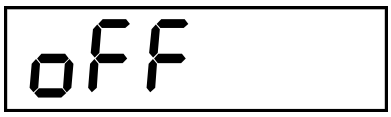
2.1.9 Auto Save

Auto Save permits the Indicator to send the **Auto Hold** value directly to its memory.

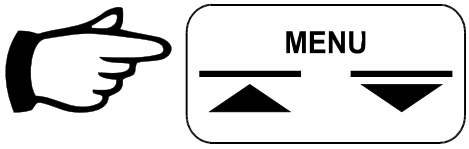
Note: Since this is an automatic feature, care should be taken in deciding to use it. For example; if an animal on the scale jumps or reacts violently, the **Auto Hold** may lose its Lock and recalculate the animal's weight. In this case there would be two readings stored in memory for the one animal.

1. From the **Auto Save** menu, press the **ENTER** key.

The current **Track Compliance** setting is displayed. All status indicators flash.



2. Use the **UP** and **DOWN** keys to change the setting as required.



3. To accept the new setting, press the **ENTER** key.

4. To discard the new setting, press the **EXIT** key.

Display shows the **Auto Save** menu.