



Model 7050

Bulk Sampling Scale



Setup, Configuration and Calibration Manual

UNITED STATES

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CANADA

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the radio Interference Regulations of the Canadian Department of Communications.

Le present appareil numerique n'émet pas de bruits radioelectroniques dépassant les limites applicables aux appareils numeriques de la Class A prescrites dans le Reglement sur le brouillage radioelectrique que edicte par le ministre des Communications du Canada.

EUROPEAN COUNTRIES

WARNING

This is a Class A product. In a domestic environment this product may cause radiointerference for which the user may be required to take adequate measures.



CAUTION

**Risk of electrical shock. Do not remove cover. No user serviceable parts inside.
Refer servicing to qualified service personnel.**

**Weigh-Tronix reserves the right to change
specifications at any time.**

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7050 Menus

Entering the Menu

*The display will instruct you how to exit from a display screen. Press **ESCAPE** to back out of most screens. This will cancel any values you've keyed in. Press **ENTER** to accept changed values.*

Information about the scale, testing functions, scale configuration, and calibration are accessed through menus, some of which are protected by passwords. The configuration and calibration menus are covered in this manual.

To enter the menu, press the **ESCAPE** key once, then press and hold the **ESCAPE** key again until the unit beeps. The menu structure is pictured in Figure 1. The words in the rectangles represent softkeys you will see on the display. Upon entering the menu the display shows the following softkeys:

About

Press this softkey to see the scale model name, firmware version, license number and license company of the downloader program, the file name, download time and date the file was downloaded.

Audit

Press this softkey to display the calibration and configuration audit counters. The configuration counter increments each time the configuration menu is accessed or when a new configuration file is downloaded. The calibration counter increments each time a base is calibrated. These numbers cannot be erased or changed by the user.

Test

Press this softkey to access the test

menus for the display, keypad, base QDT® cell or remote loadcells, serial ports, outputs and inputs. Follow prompts on the display to accomplish these tests.

Under BASES the Fc and Ft readings should be $47,200 \pm 2,000$ and raw counts should be $120,000 \pm 50,000$. The raw counts should also be stable starting with the third digit from the right.

Under SERIAL, Port 1 is COM#1. Short pins 2 (XMT) and 3 (Recv) to show LOOP. Port 2 is COM#2. Short pins 3 (XMT) and 5 (Recv) to show Loop Back A Loop.

Setup

Press this softkey to access the password protected menus. The password for the User menu is 000. Figure 2 illustrates all the items you access in the User menu. Each is explained in the next section: *User Menu*.

Off

Press this softkey to turn the 7050 off. Pressing any key will turn the scale on.

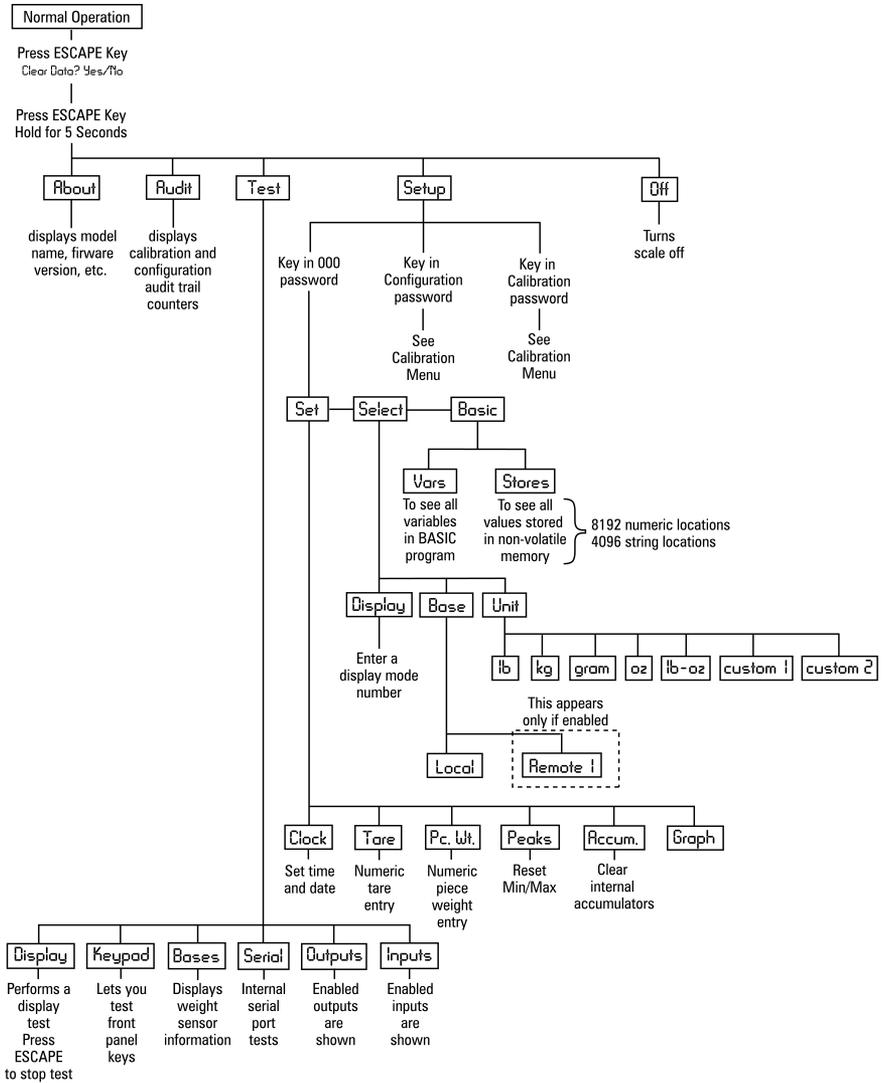
Setup Menu

*Setup Menu
password is 000*

Refer to Figure 2. Access this menu by following these steps:

1. Press the **ESCAPE** key. The display will prompt *Clear Data? Yes/No*. Press the **ESCAPE** key a second time and hold for five seconds and 5 soft keys will appear. Press **SETUP**.

Figure 1
Setup Menu



2. Press the **SETUP** softkey
Scale prompts for a password.
3. Key in 000 and press **ENTER**
New softkeys appear: **Set**, **Select**
and **BASIC**. Each of these are
discussed below.

Set Softkey

Press **Set**: The following softkeys are displayed:

Clock

Follow the prompts on the screen to set the time and date.

Tare

Prompts you to enter a tare value. Use this when you want to set a long term tare value for all scales. If you set this tare, you should disable the **TARE** key.

Pc. Wt.

Prompts you to enter a piece weight value. Use this when you want to set a long term piece weight value. If you set this piece weight, you should disable the **SAMPLE** softkey.

**This function does not apply for bulk mail applications.*

Peaks*

Prompts if you want to clear all the minimum and maximum peak values in memory. Display gives you **YES** and **NO** softkeys.

Accum.*

Prompts if you want to clear all accumulators. Display gives you **YES** and **NO** softkeys.

Graph*

Prompts you to key in values for each of the following values used in checkweigher display:

Min For minimum value

Under For lowest acceptable target weight

Over For highest acceptable target weight

Max For maximum value

Basis Select the basis from this list of values:

0 = Gross **(default)**

1 = Net

2 = Tare

3 = Min

4 = Max

5 = ROC

6 = Gross Total

7 = Net Total

8 = Count Total

9 = Transaction Total

10 = Count

11 = Variable

12 = Piece Weight

13 = ADC

To exit **Set Softkey** menu, press **ESCAPE** Key.

Select Softkey

Press **Select**:

The following softkeys are displayed:

**This function does not apply for bulk mail applications.*

Display*

The bulk mail display settings are:

Display Mode:2

Active Value:1

Secondary Display Value:0.

These are factory set. Do not change for bulk mail applications.

Base

You are asked to pick the active scale base. Only active bases are offered as choices.

Unit

You are asked to select the active unit of measure from this list: lb, kg, gram, oz, lb-oz, custom 1, custom 2.

To exit **Select Softkey**, press **ESCAPE** Key.

BASIC Softkey*

**This function does not apply for bulk mail applications.*

In this selection you can view the values of all the variables in the BASIC program (**Vars**) and all the values stored in nonvolatile memory (**Stores**).

Under **Vars** are softkeys for moving through the list of variable values:

FIRST Moves to the first variable in the list.

NEXT Moves to the next variable in the list.

EXIT Returns to the previous menu.

Under **Stores** there are two types of volatile memory you can choose to see: numerics or strings.

Under each you are given these softkey choices:

Prev Moves to the previous indexed location.

Next Moves to the next variable in the list.

Select Lets you enter the index number you want to recall.

Exit Returns to the BASIC menu.

PRINT Softkey

Below are the memory locations for standard and expanded memory:

	Numeric	String
Standard	0-8191	0-4095
Expanded	0-16383	0-8191

Configuration Menu

Configuration menu password is 3602.

The next menu is the configuration menu. See Figure 2. Press the **ESCAPE** key. The display will prompt **Clear Data? Yes/No**. Press the **ESCAPE** key a second time and hold for five seconds and 5 soft keys will appear.

Press **Setup** softkey, then key in 3602 and press **ENTER**. The following softkeys are displayed:

- **Scale**
- **Base**
- **Exit**

The items found under each of these keys is discussed below.

Scale Softkey

The **Scale** softkey gives you access to items for setting general scale parameters.

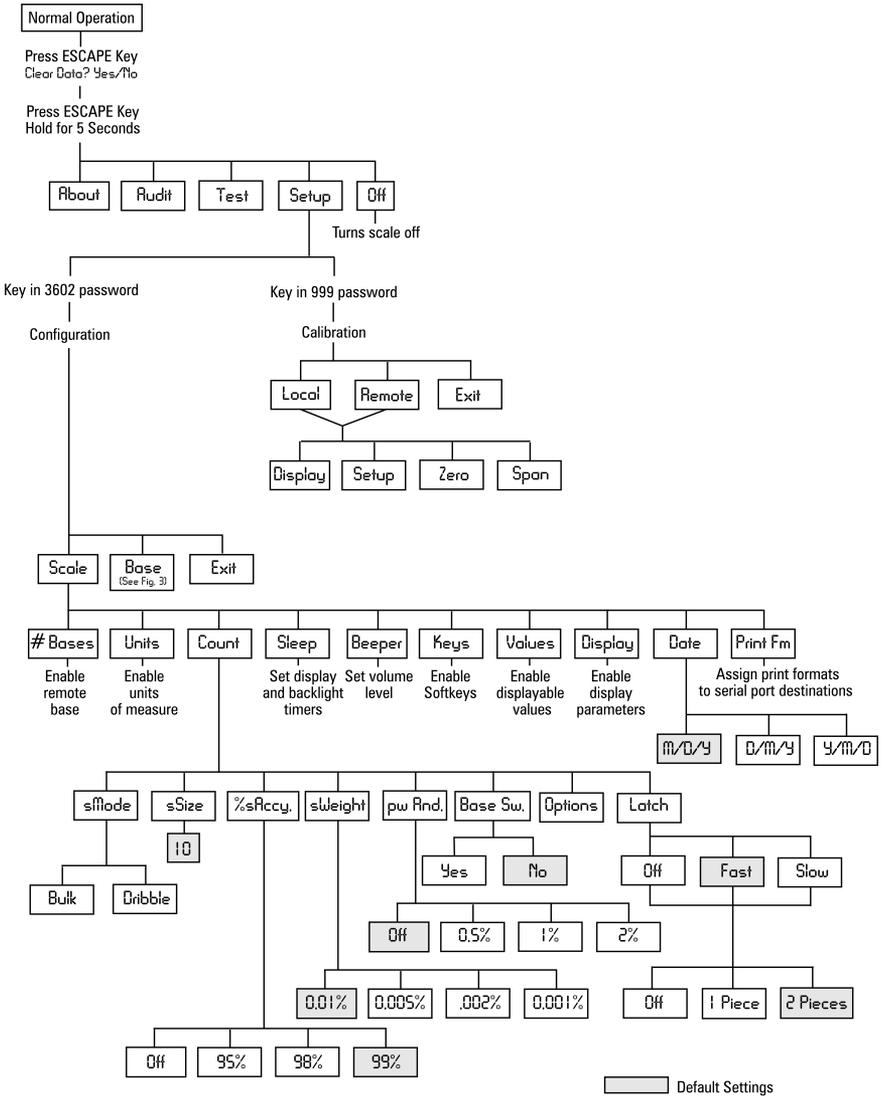
Bases Softkey

The first softkey under **Scale** is **# Bases**. Press this and you are prompted to key in the number of remote bases attached to the 7050. Remote 1 is Quartzell (**default is Quartzell**). The bulk mail scale supports only 300 lb. Quartzell® base.

Units Softkey

Press the **Units** softkey and you are prompted to enable or disable each of the following units of measure: (**defaults are lb and lb-oz**)

Figure 2
Configuration and Calibration Menu



- lb (enabled on first power up)
- kg
- g
- oz
- lb-oz
- Custom 1
- Custom 2

Custom 1 and Custom 2 are not allowed in bulk mail scale.

Count Softkey

Press the **Count** softkey to set the following counting parameters:

- **sMode** = Sample mode:
Choose from bulk or dribble
(default is dribble)

Bulk mode: Place all of the samples on scale at one time. After motion stops, the count is automatically displayed.

Dribble mode: Place sample on scale, then press **ENTER**. After motion stops, the count is displayed.
- **sSize** = Sample size:
Key in a minimum sample size
(default is 10)
- **%sAccy** = Minimum percentage sample accuracy:
Choose from off, 95%, 98% or 99%.
(default is 99%)
- **sWeight** = Minimum sample weight as percentage of full scale:
Choose from 0.01%, 0.005%, 0.002%, and 0.001% **(default is 0.01%)**.
- **pw Rnd.** = Piece weight rounding:

Choose from off, 0.5%, 1%, and 2%
(default is off).

- **Base Sw.** = Base switching: (You must have selected and configured a remote base for this function to work.)
Choose to enable or disable auto base switching mode **(default is no)**.
Auto base switching lets you perform sampling on one scale (local or remote) and the scale will automatically switch to another scale for counting.
If you enable this mode you are asked to choose the sampling scale and then the counting scale. For sampling scale **(default is local)**. For counting scale, **(default is last)**. Choose `Last` to return to the scale you were using before you did your sampling.
- **Options** = Sample parameter switching options:
When the scale is in sampling mode, there are several features, functions or modes you can change if they are enabled. If they are not enabled, the configured choices are used. Here is where you can enable or disable those features. The features are:
 - Sample Mode Switching (default is no)** - Lets you switch between bulk and dribble sampling while in the sample mode.
 - Sample Base Switching (default is no.)** - Lets you switch bases for sampling and counting while in the sample mode.

Minimum Sample Weight Switching (default is No.) - Lets you change the minimum sample weight while in the sample mode.

Sample Accuracy Switching (default is No.) - Lets you change the sample accuracy while in the sample mode.

- **Latch** = Count filter and sample latching mode:

Count Filter: You can choose a count filter of Off, Fast or Slow **(default is slow)**.

The count filter, which can also be called count latching, helps lock onto a count value when piece weights are less than a division size. Choose **Fast** for some filtering and **Slow** for more filtering.

Sample Latching: Off, 1 piece, 2 pieces.

Latching, if enabled, gives the appearance of stability immediately following the sample process. The sample latch is broken when motion is detected, or if the calculated count is over two pieces away from the sample size. The latch will not function again until another sample process is completed. **(default is 2 pieces.)**

Sleep Softkey

Press the **Sleep** softkey to enable the sleep timer **(default is No)**. If sleep timer is enabled, display is prompted to enter time and minutes **(default is 10)**.

Then you are prompted to enable a sleep

*To replace default values, key in a new value and press **ENTER** to accept it. Remember, you can press the **CLEAR** key to erase entered numbers.*

warning (**default is Yes**). If no scale activity occurs in this period, the scale will turn itself off preceded by a series of warning beeps. Press any key to reactivate the scale.

The display then prompts enable auto backlight backlight timer (**default is Yes**). If you choose **Yes** you are prompted for a time in minutes (**default is 5**). If no scale activity occurs for the specified time, the backlight will turn off. Press in any key or scale motion will reactivate the backlight.

The sleep and backlight will reset whenever there is motion or a key is pressed.

Beeper Softkey

Press the **Beeper** softkey to choose a beeper volume. Choices are Off, Low, Medium, and High (**default is medium**).

Keys Softkey

Press the **Keys** softkey to enable the following keys: **Tare**; **Zero**; **# Keypad**; **Print**; **Sample**; **Recall**; **dbase**; **Accumulate**.

Values Softkey

Press the **Values** softkey to enable the viewing of the following values when you press the **Select** softkey. (This assumes you have the select softkey enabled.)

#0	Gross	(default is Yes)
#1	Net	(default is Yes)
#2	Tare	(default is Yes)
#3	Minimum	(default is No)
#4	Maximum	(default is No)
#5	Rate of Change	(default is No)
#6	Gross Total	(default is No)
#7	Net Total	(default is No)
#8	Count Total	(default is No)
#9	Transaction Total	(default is No)
#10	Count	(default is Yes)
#11	Value	(default is Yes)

#12 Piece Weight **(default is Yes)**
#13 A to D Counts **(default is No)**

These are default settings for bulk mail scale and do not need adjustments.

Display Softkey

Press the **Display** softkey to configure the power-up display mode and other display items shown below. Enter a value or choice and press the **ENTER** key for each.

Power-up display mode -

Choose from #1-20. **(default is 2.)**

Power-up display value -

Choose from #0-13. See list above under **Values Softkey. (default is 0.)**

Power-up 2nd display value

Choose from #0-13. See list above under **Values Softkey. (default is 0.)**

Enable HIDDEN key display cycle?

(default is No.)

Enable lowercase for small text?

(default is Yes.)

Enable Low Battery indication?

(default is No.)

Enable Pre-Set Tare Annunciation?

(default is No.)

Date Softkey

Press the **Datesoftkey** to choose the date format you want from these choices:

M/D/Y = Month/Day/Year

D/M/Y = Day/Month/Year

Y/M/D = Year/Month/Day

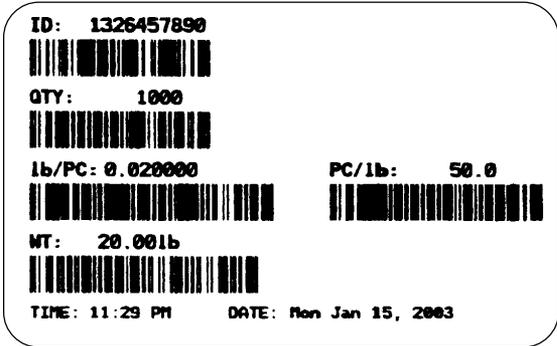
Default is M/D/Y.

Print Fm Softkey

Press the **Print Fm** softkey to configure the port to use for each print format. First you choose the default print format. Choices are 1 or 2. Default is 2. Press **Done** when you are finished.

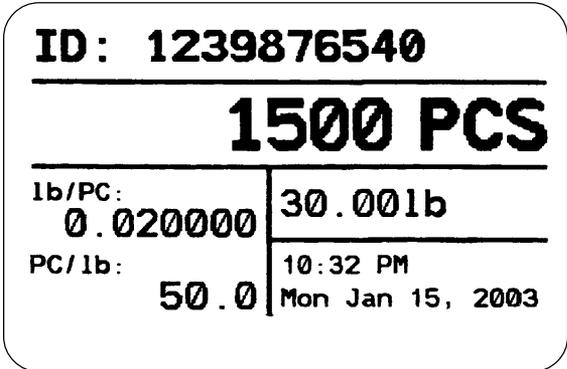
In its from-the-factory configuration, the 7050 must be connected to the label printer (Eltron Orion) through COM Port 2 only.

Label Printer Format 2
4x2 Bar Code Label. (default format)



The label contains ID number, count quantity, piece weight, pieces per weight, grossweight, and time and date.

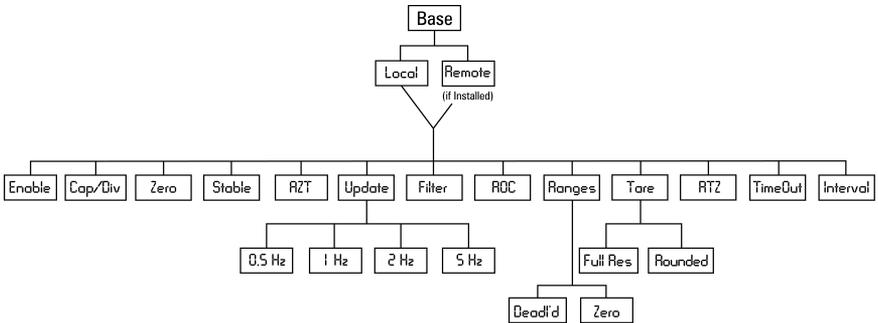
Label Printer Format 1
4x2 Data Label



Base Softkey

The **Base** softkey gives you access to all the configuration parameters for all enabled bases. (See Scale, # Bases to enable remotes.) You are given the choice of which base to configure; **Local, Remote 1 or Remote 2**. After you make

Figure 3
Base Configuration Menu



Softkeys

- Enable** Local **(default is yes)**
- Cap/Div** 50.001 Fixed
- Zero** Default is 100% (0-100%)
- Stable** Default is 1 division and 1 second
- AZT** Default is 0.5 division and delay 1 second
- Update** Default is 5 hz (five times per second)
- Filter** Number of samples **(default is 10)**
Harmonizer Filter = No
- ROC** ROC (Rate of change) samples default = 50
ROC multiplier default = 60
- Ranges** Default is deadload and 102.5% of capacity on either ranges
- Tare** Default is fullRes (Full resolution)
- RTZ** Default = fullRes
- TimeOut** Print Timeout =5
Accumulate timeout =0
Zero timeout =0
Tare timeout =0
Sample timeout =5
- Interval** Default = No

the choice, the following softkeys appear. (See Figure 3.)

Calibration Menu

*Calibration Menu
password is 999*

The next menu is the Calibration menu. See Figure 2. Access this menu by following these steps:

1. Press the **ESCAPE** key. The display will prompt **Clear Data? Yes /No**. Press the **ESCAPE** key a second time and hold for five seconds and 5 softkeys will appear.
2. Press the **SETUP** softkey
Scale prompts for a password.
3. Key in 999 and press **ENTER**
You are then given the choice of **Local** or **Remote 1**.
4. Select the base you want to calibrate
The following softkeys are then displayed:
 - **Display**
 - **Setup**
 - **Zero**
 - **Span**
 - **Exit**

Each of these keys is discussed below.

Display Softkey

Press the **Display** softkey to see the weight display for the currently selected base. This allows you to see the weight without exiting the calibration menu.

Setup Softkey

Press the **Setup** softkey to view the capacity and division size of the currently selected scale. Press any key to display the serial # of the selected Quartzell® base.

Setup is required whenever a new cell or base is installed in the bulk mail scale.

Zero Softkey

Press the **Zero** softkey to start the zero part of the calibration process. The display prompts you to remove any load from the scale and press **ENTER**. When you do, the display will show Determining Zero and then say **Done**. **Press any key to continue**. After you press a key, the display returns to the previous softkey selection.

Span Softkey

Press the **Span** softkey to start the span part of the calibration process. The display first prompts you to enter the calibration unit of measure, lbs or kgs. The scale prompts you to key in a span calibration weight and press **ENTER**. Do this and the display prompts you to place that amount of test weight on the scale and press **ENTER**.

Verify that the scale is empty when capturing the zero value and that you actually put the test weight on the scale when setting Span.

When you do, the display will show **Determining Span. . .** and then say **Done**. **Press any key to continue**. After you press a key, the display returns to the previous softkey selection and the calibration process is complete.



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