



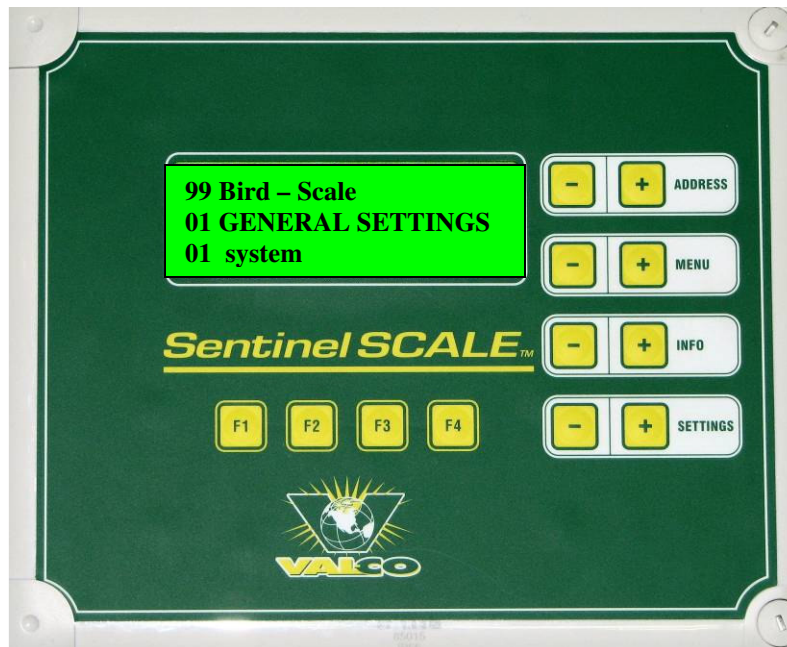
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## **Bird Scale BE-SSC-101 STAND ALONE MANUAL**

**Version 7.0.0**

**Use this manual to program the BE-SSC-101 stand-alone unit**



**BE-SSC-101****INDEX**

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## **Stand Alone Settings – BE-SSC-101 Menu or Page Listings**

### 01>General Settings

Turns settings on & off

### 02> to 05> Settings - House 1 - House 4

Start new flock, key in mortality, bird placement, and bird type

### 10> to 13> Info - House 1 - House 4

House information

### **History Menus: 18> to 69> Fifty days of information recorded here**

### 18> to 21> Average Weights - House 1 - House 4

Gives daily average weights

### 26> to 29> Growth Last 24 Hours - House 1 - House 4

Tracks growth gain over 24 periods

### 34> to 37> Difference to Standard - House 1 - House 4

Tracks differences between load curve & actual growth

### 42> to 45> Weighings - House 1 - House 4

Tracks the number of weighing in a house in the past 24 hours

### 50> to 53> Standard Deviation - House 1 - House 4

Shows the average deviation of weight in the birds in relation to the actual average weight of the birds, by weight.

### 58> to 61> Coefficient of Variation - House 1 - House 4

The Coefficient of Variation is displayed as a percentage. The larger the CV, the greater the spread between the lightest and heaviest birds.

### 66> to 69> Uniformity - House 1 - House4

Displays uniformity of the birds as a percentage

### 74> to 80> Standard Curve - House 1 - House 4

Setting up your load curves according to your suppliers breed curve

### 97> Installer Settings

Set up your houses for scales, water, temperature etc.

### 98> Calibration

Scale Calibrations

### 99> Alarm

Alarm status and reset. The LED will flash Indicating when a scale is not weighing or a house is not turned on.

## LOOKING AT THE BE-SSC-101 INFORMATION MENU

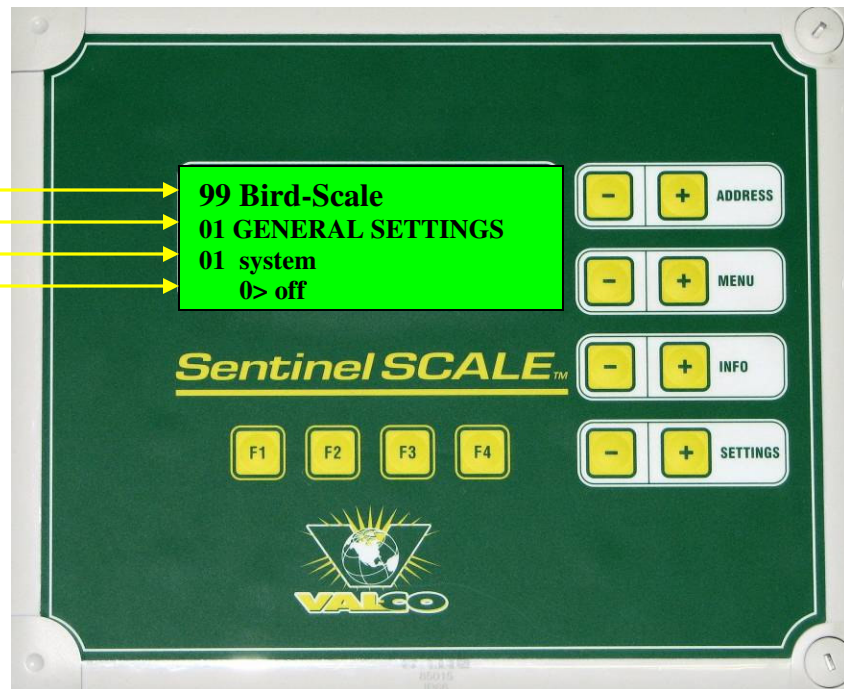
The **SENTINEL SCALE BE-SSC-101** is a measuring and recording computer for weighing broilers, breeders, turkeys, ducks etc. Four scales may be linked to a **BE-SSC-101** computer system. These scales can be used independently in up to four houses.

E.g. if you have two houses it is possible to have two scales in each house. If you have four houses it is possible to install one scale in each house.

The bird weighing system is also equipped with four temperature and eight digital inputs, so if you have four houses it is possible to measure the house temperature, food and water supply for each house.

### Display

- 1) Address
- 2) Menu
- 3) Info
- 4) Settings



### Panel- keys

<b>ADDRESS</b>	+ -	not used
<b>MENU</b>	+ -	allows you to choose an address - menu
<b>INFO</b>	+ -	allows you to choose an address – menu - info
<b>SETTINGS</b>	+ -	allows you to select and change your settings

### Function - keys

<b>F1</b>	press this key to get general information from the bird weigher: i.e. model number, serial number and key code.
<b>F2</b>	not used
<b>F3</b>	using this key allows you to speed up some settings such as flock numbers ( <b>NOTE:</b> page 5)
<b>F4</b>	using this key allows you to jump from specific info information in one house to similar information in other connected houses. ( <b>NOTE:</b> page 6)

**NOTE:****F3 function key:**

By pressing the **F3** key you can speed up “bird placement” and “calibration weights”.

For example you are starting a new flock and the number of birds has to be inserted. This can be very time consuming if this setting is not changed. It is defaulted to increments of one. If you were to press the **SETTINGS +** key at this stage the numbers increase by a value of 1. So if you have 15500 birds you can see that it would take some time to do.

<b>99 Bird-Scale</b> <b>02 SETTINGS HOUSE 1</b> <b>09 bird placement</b> <b>0 birds</b>
--

<b>99 Bird-Scale</b> <b>02 SETTINGS HOUSE 1</b> <b>09 bird placement</b> <b>1 birds</b>
--

To change this default setting, press the **F3** key and hold it down for a second and it will change to **INC\* 10**. Press the **F3** four times and you'll get **INC\*1000**. Each time the **F3** key is released the display will revert back **0 birds**. Now when you press the **SETTINGS + or -** key the numbers will increase or decrease by 1000.

<b>99 Bird-Scale</b> <b>02 SETTINGS HOUSE 1</b> <b>09 bird placement</b> <b>INC* 10</b>
--

<b>99 Bird-Scale</b> <b>02 SETTINGS HOUSE 1</b> <b>09 bird placement</b> <b>INC* 1000</b>
--

<b>99 Bird-Scale</b> <b>02 SETTINGS HOUSE 1</b> <b>09 bird placement</b> <b>15000 birds</b>
--

You now have 15000 birds entered. To add the 500, press the **F3** key until it goes to **1000000** and it reverts back to **INC\*1**. Now press the **F3** to get **INC\*100**. Press the **SETTINGS +** 5 times to add 500 birds to the 15000. You now have 15500 birds entered.

<b>99 Bird-Scale</b> <b>02 SETTINGS HOUSE 1</b> <b>09 bird placement</b> <b>15500 birds</b>
--

**Note:****Function F4 key:**

Using the “F4” key allows you to circle through the same info information in each connected house.

For example you are in **menu 02> Settings House 1** and on **info 10> dead birds**. By using the “F4” key you can circulate from House 1 to House 4 without pressing the Menu tab and enter your dead birds fro each house. If you have 6 dead birds in House 1, 5 dead birds in House 2, 3 in House 3 and 2 it becomes very easy to enter the data using the “F4” key.

Scroll down to **menu 02> Settings House 1** and down to **info 10> dead birds**. By pressing the + **SETTINGS** key, you can enter the number of birds.

```

99 Bird-Scale
02 SETTINGS HOUSE 1
10 dead birds
  0 birds
  
```

```

99 Bird-Scale
02 SETTINGS HOUSE 1
10 dead birds
  6 birds
  
```

Now press the “F4” key once and you’ll see that it goes to **menu 02> Settings House 2**, **info 10> dead birds**. By pressing the + **SETTINGS** key, you can enter the number of birds.

```

99 Bird-Scale
02 SETTINGS HOUSE 2
10 dead birds
  0 birds
  
```

```

99 Bird-Scale
02 SETTINGS HOUSE 2
10 dead birds
  5 birds
  
```

The same is done for Houses 3 & 4.

Using the “F4” key works anywhere within the program. A prime example of this would be in **Info House 1, 2, 3 & 4** as there are multiple infos (1 – 53) to scroll through.

```

99 Bird-Scale
10 INFO HOUSE 1
01 flock id
  1
  
```

To

```

99 Bird-Scale
10 INFO HOUSE 1
50 1 – water total
  0 .000 1 / bird
  
```

Use the “F4” key to flip between the houses just as was done for **02 SETTINGS HOUSE 1, 2, 3 & 4**.

## PUTTING THE BE-SSC-101 INTO OPERATION

### 01 – GENERAL SETTINGS



When the Sentinel Scale is installed and first turned on, it will look like this. By pressing the **SETTINGS** “- or +” button will turn the system off or on. (NOTE: You must press and hold the **SETTINGS** “-” button for about 6 seconds to turn the scale off)



Press the **INFO** “+” to advance to **info 02**.

Press the **SETTINGS** “- or +” button to set the current time.



Press the **INFO** “+” to advance to **info 03**.

Press the **SETTINGS** “- or +” button to set the current date.



Press the **INFO** “+” to advance to **info 04**.

Press the **SETTINGS** “- or +” button to set the current year.



This is a factory setting and requires no action.



Press the **INFO “+”** to advance to **info 06**.

Press **SETTINGS “+”** to change the setting from **“no to yes”**. This enables you to program the BE-SSC-101 to:

- 1) Calibrate the scales, water meters & temperature settings
- 2) Start a new flock
- 3) Designate scales, water meters and temperature to separate houses

**Once the unit is turned on to the “yes” mode, you only have 30 minutes to program the BE-SSC-101 and then the unit will revert back to “no”. If you have not completed your programming within the 30 minute allotted time, you’ll have to go back and turn the system back on to “yes” and continue from where you left off.**

### **IMPORTANT:**

When the **SENTINEL SCALE** unit is first turned on, check to make sure that the very first line reads: **99 BE-SSC-101 Bird-Scale**; as a stand alone unit this is required. If the unit is not a stand alone, but works with another unit, then this line will need to be changed.

If the unit does not read **99 BE-SSC-101 Bird-Scale** as a stand alone unit, here is the process to make the change:

Go to menu **01 GENERAL SETTINGS** by pressing the **MENU “-”** key. Go to info **06 install. settings** by pressing the **INFO “+”** key and press the **SETTINGS +** button to get **yes**.

Next, use the **MENU “-”** button to get to menu **97 INSTALL SETTINGS**. Press the **SETTINGS “-”** button until you get **99** (for a stand-alone unit, **00** for a shared unit). Now turn the **SENTINEL SCALE** unit off, wait a couple of seconds and then turn the unit back on. The change will have taken effect.



## INSTALL SETTINGS

Menu 97: Install settings is where you set the measurements for weight (grams or kilo grams), house temperatures (Celsius or Fahrenheit), water volume (US gallons, Imperial gallons or Litres), the number of houses (1 – 4), & scale and temperature connections houses 1 – 4)

## 97 – INSTALLER SETTINGS

**Note: Stand alone units should always be set at “99 BE-SSC-101 Bird-Scale”  
See page 8.**



Once you've turned the BE-SSC-101 on to the “yes” mode, it will enable you to program the unit.



Press the MENU “-” button to get info 97.



Press INFO “+” to go to past info 02, 03. These are factory settings and no action is required.



Press INFO “+” to go to info 06. This is preset for English. Other languages are available by pressing the SETTINGS “+ or -” button.



Press **INFO “+”** to go to **info 07**. This is preset to **Internal** for use with a single BE-SSC-101 installation. If a multiple BE-SSC-101 installation is used, then press the **SETTINGS “+”** button to change to **External**.



Press **INFO “+”** to go to **info 09**. It is factory set to **0> grams**.  
 Press **SETTINGS “+”** once to change to **1> lbs**.



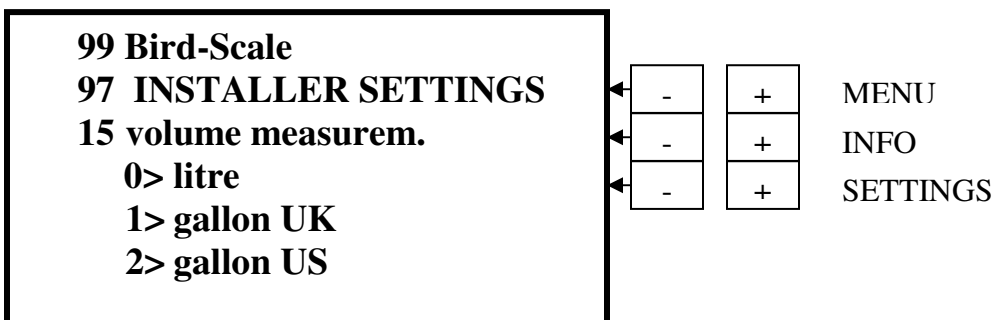
Press **INFO “+”** to go to **info 10**. This is preset to **Internal** for use with a single BE-SSC-101 installation. If a multiple BE-SSC-101 installation is used, then press the **SETTINGS “+”** button to change to **External**.



Press **INFO “+”** to go to **info 12**. This is preset to Celsius.  
 Press the **SETTINGS “+”** button to change to **1> Fahrenheit**.



Press **INFO “+”** to go to **info 13**. This is preset to **Internal** for use with a single BE-SSC-101 installation. If a multiple BE-SSC-101 installation is used, then press the **SETTINGS “+”** button to change to **External**.



Press **INFO “+”** to go to **info 15**. This is preset to **Litre**. To change the volume measurement from litres to **gallon UK** press **SETTINGS “+”**. To change to **Gallon US** press **SETTINGS “+”** once more.



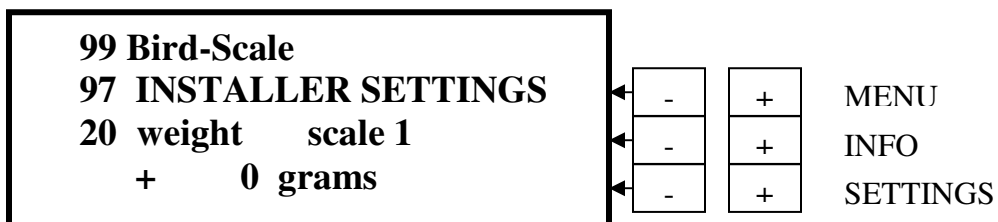
Press **INFO “+”** to go to **info 16**. This is preset to **Internal** for use with a single BE-SSC-101 installation. If a multiple BE-SSC-101 installation is used, then press the **SETTINGS “+”** button to change to **External**.



Press **INFO “+”** to go to **info 18**. If you have more than one house, then press **SETTINGS “+”** for up to 4 houses.



Press **INFO “+”** to go to **info 19**. To connect the scale, press **SETTINGS “+”** to get **1> connected**.



Press **INFO “+”** to go to **info 20**. Once the scale is calibrated, an actual weight will show in the value line. See **CALIBRATION Quick Sheet** for more details.

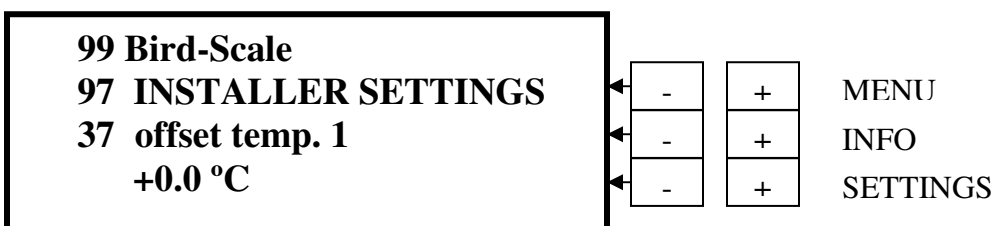
If more than one scale is installed, repeat for **info 21, 23 & 25**.



Press **INFO “+”** to go to **info 35**. If a temp sensor is attached, press **SETTINGS “+”** to get **1> connected**.



Press **INFO “+”** to go to **info 36**. If the temperature sensor is connected, the actual temperature will show in either **Celsius** or **Fahrenheit** according to what you’ve input previously. If it shows +100 °C or +212 °F, then the sensors are not connected properly. Check the wire connections.



Press **INFO “+”** to go to **info 37**. You can adjust the temperature sensor by pressing **SETTINGS “+ or -”** or if more than one temperature sensor is activated, repeat the above steps for **Infos 38 – 46**. **Normally no action is required here.**



Press **INFO “+”** to get **info 47**.

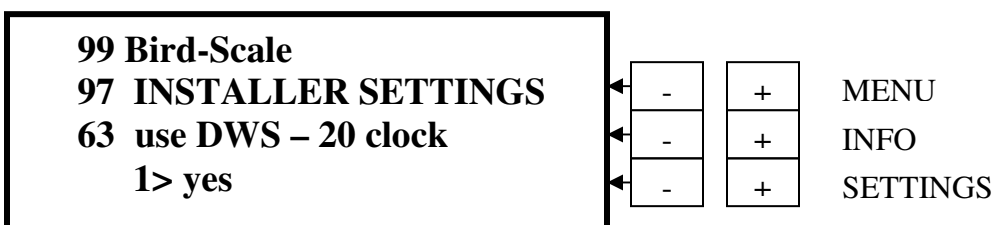
Press **SETTINGS “+”** to connect **1> water counter. (meter) only if a water meter is to be used.**



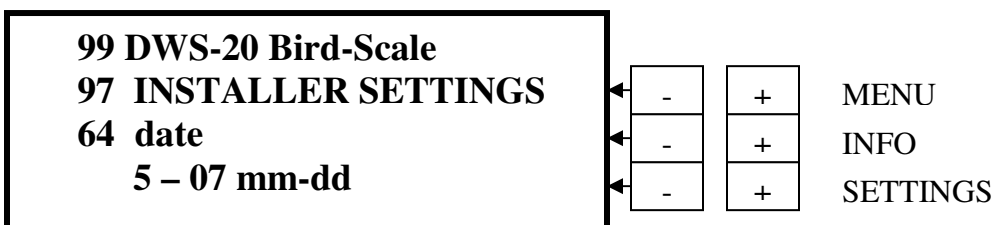
Press **INFO “+”** to get **info 48**.

If you have chosen US gallon, press **SETTINGS “+”** to read **1 US gal/pulse**  
**If more than one water meter is installed, then repeat for Infos 49 – 62**  
**or for as many as you need.**

**\*\* Water metres physically pulse on one US gallon, I.E. 120 oz.\*\***



Press **INFO “+”** to get **info 63**. This is a default.



Press **INFO “+”** to get **info 64**.

Press **SETTINGS “+ or -”** to set the current date.



Press **INFO “+”** to get **info 65**.

Press **SETTINGS “+ or -”** to set the current year.



Press **INFO “+”** to get **info 66**.

This is a factory setting and requires no action.



## SETTINGS HOUSE - INFORMATION MENU

Remember that you only have approximately 30 minutes to program the BE-SSC-101.

If you are in the middle of programming and you can no longer enter data. That means that the setting has timed out. Go back the **Menu 01 GENERAL SETTINGS, info 06** and change the setting from “**off**” to “**on**”. This will give you another 30 minutes to continue entering your data.

## 02 – SETTINGS HOUSE

This setting is used for starting a new flock

99 Bird-Scale			
01 GENERAL SETTINGS	←		MENU
06 installer settings	←		INFO
1> yes	←		SETTINGS

This will be the starting point! Make sure that the installer setting is turned on to “YES”! To turn installer settings on see page 8.

99 Bird-Scale			
02 SETTINGS HOUSE 1	←		MENU
01 mode	←		INFO
0> off	←		SETTINGS

Press MENU “+” to go to Menu 02 SETTINGS HOUSE 1.

**Leave this off for now, you will come back to this setting and change it to “on” after the step where you “start new flock.” At the end of the flock, press SETTINGS “-” to turn the flock off.**

99 Bird-Scale			
02 SETTINGS HOUSE 1	←		MENU
02 flock id	←		INFO
0	←		SETTINGS

Press INFO “+” to go to info 02.

To give your flock an ID, press SETTINGS “+” to get the number you want. No letters are available here! To enter large numbers, see menu 5.

99 Bird-Scale			
02 SETTINGS HOUSE 1	←		MENU
03 start age birds	←		INFO
0 days	←		SETTINGS

Press INFO “+” to go to info 03.

Press SETTINGS “+” to get the number of days. Normally, the first day is “0”.

<b>99 Bird-Scale</b> <b>02 SETTINGS HOUSE 1</b> <b>04 start weight bird</b> <b>0.055 lbs</b>	←	-	+	MENU
	←	-	+	INFO
	←	-	+	SETTINGS

Press **INFO “+”** to get **info 04**.

Press **SETTINGS “+ or -”** to get the desired start weight.

<b>99 Bird-Scale</b> <b>02 SETTINGS HOUSE 1</b> <b>05 time offs. curves</b> <b>12 hours</b>	←	-	+	MENU
	←	-	+	INFO
	←	-	+	SETTINGS

This is a factory setting. No action is required.

<b>99 Bird-Scale</b> <b>02 SETTINGS HOUSE 1</b> <b>07 select bird type</b> <b>0&gt; broil. as hatched</b>	←	-	+	MENU
	←	-	+	INFO
	←	-	+	SETTINGS

Press **INFO “+”** to get **info 07**.

Press **SETTINGS “+ or -”** to choose the type of bird

<b>99 Bird-Scale</b> <b>02 SETTINGS HOUSE 1</b> <b>08 start new flock</b> <b>0&gt; no</b>	←	-	+	MENU
	←	-	+	INFO
	←	-	+	SETTINGS

Press **INFO “+”** to go to **info 08**.

Press **SETTINGS “+”** for about six seconds to get **“yes”**. Release the **“+”** button. The display will revert back to **“no”** within a few seconds. **This is supposed to happen.**

This turns the flock on. Before you do this, make sure that all of the above information is correct. If a mistake is made, key in the correct information and restart the flock.

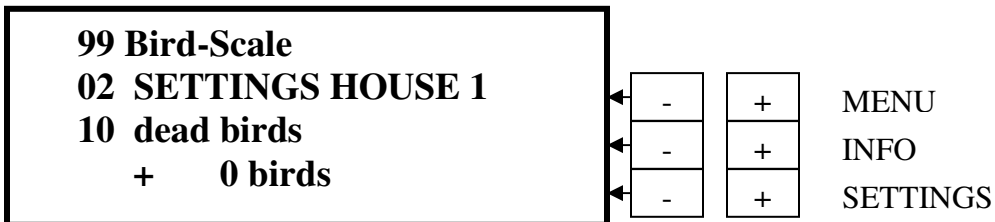
Previous information will be removed.

<b>99 Bird-Scale</b> <b>02 SETTINGS HOUSE 1</b> <b>09 bird placement</b> <b>12000</b>
--

Press **INFO “+”** to go to **info 09**.

Press **SETTINGS “+”** enter the bird numbers.

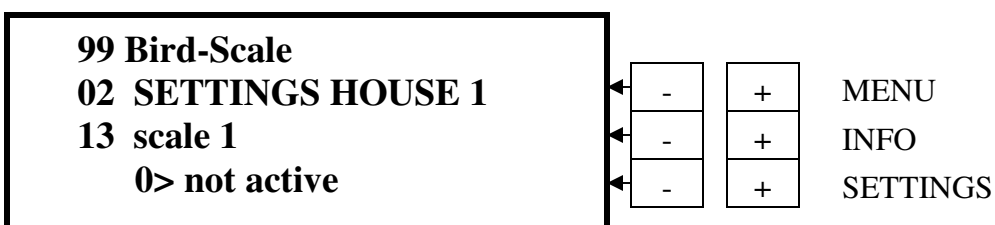
**\*\* Refer to pages 3 & 4 in GENERAL SETTINGS – INFORMATION MENU if help is needed here.\*\***



Press **INFO “+”** to go to **info 10**.

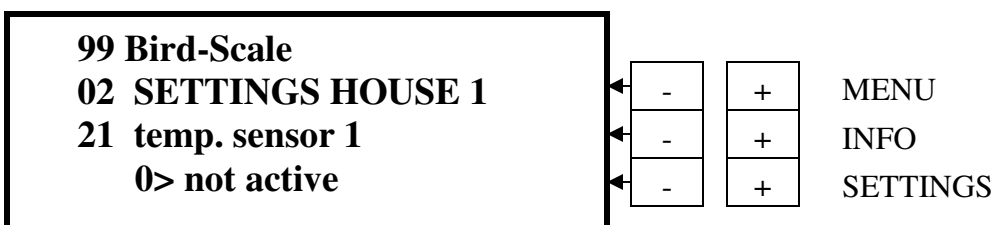
Press **SETTINGS “+ or -”** to enter the number of dead birds.

**AT THIS POINT GO BACK TO THE FIRST SCREEN AND CHANGE THE SETTINGS HOUSE 1 mode to “on” by pressing the SETTINGS “+” BUTTON.**



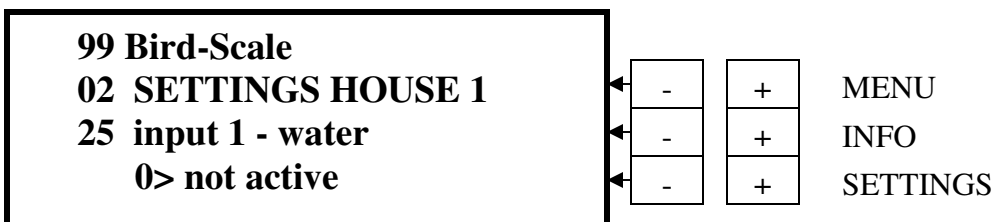
Press **INFO “+”** to go to **info 13**.

Press **SETTINGS “+”** to get **1> active**. Repeat for **Infos 14 – 16** if more than one scale is to be used.



Press **INFO “+”** to go to **info 21**.

Press **SETTINGS “+”** to get **1> active**. Repeat for **Infos 22 – 24** if more than one temperature sensor is to be used.



Press **INFO “+”** to go to **info 25**.

Press **SETTINGS “+”** to get **1> active**. Repeat for **Infos 26 – 29** if more than one water metre is to be used.

## **TRANSFERRING BIRDS BETWEEN HOUSES**

To continue the flow of information when a house is transferred into another house it is important that the flock ID remains the same and that the scale in the house that the birds are moved from is turned off and the scales in the transfer houses are turned on and the house(s) are started.

### **Original Setting: (Starting your flock)**

House1  
Flock ID # 101 } always stays the same and follows the birds'/flock to the end.  
Scale #1

### **Birds are split and transferred to other barns/houses:**

**Turn Scale 1 "off"**

House 1  
Flock ID #101  
Scale 2 "on"

→ if more than one barn is filled from the brooder complex,  
subsequent barns need to be started as a new flock

House 2  
Flock ID #101  
Scale 3 "on"

# CONCEPTS - INFO HOUSE INFORMATION MENU

## BIRD WEIGHING SYSTEM

### Introduction to the BE-SSC-101 menu program

#### Menu 10 – 13: Info House 1 – House 4

##### Info 01: Flock ID

**Info 02:** Age of the birds at time displayed.

**Info 03: Actual Mean Weight (average weight)** of the birds is being constantly calculated each time that a weight is accepted.

**Info 04: Mean Growth Trend (average daily gain)** Growth last 24 hours is a linear calculation and at time displayed shows the average increase in growth of the birds of the preceding 24 hours. This linear calculation provides one of the most important data fields in conjunction with CV values.

**Info 05: Standard weights** are the breed curve weights as supplied by breeder companies. The breed curve weight is continually calculated in the program to be compared to actual bird weight at any given point in time.

**Info 06: Difference to Standard** is the difference between the average weight of your birds and the weight according to the breed curve at any given time.

**Info 07: Standard Curve** is the breed curve already imbedded in the program or one that you put in according to your suppliers specifications.

**Info 08: Weighings** displays the number of accepted weighings as registered in the program each 24-hour period. The accepted weights result as a comparison of weight readings from the scale, analyzed in the program to the actual average weight of the birds within the flock.. This ensures the accuracy of the data being provided to the user.

**Info 09: Standard deviation** describes the spread from lightest to heaviest by weight using the average weight as the standard.

**Info 10: Coefficient of variation (CV Values)** expressed as a percentage of the relative differential between the weights of the lightest and heaviest birds distributed around the average weight of the flock. CV values should be between 5 and 10 percent. There is a direct correlation between CV values and uniformity. The lower the CV values the more uniform the flock. Using the CV values is the second most important management tool. By comparing CV values you will immediately be alerted to an environmental or management problem.

**Info 11: Uniformity** displays uniformity of the birds as a percentage.

**Info 12: Weigher Mode** operations mode, either on or stopped

**Info 13: Live Bird Count** is the number of live birds entered at the start of the flock and the subtraction of dead birds as the flock progresses.

**Info 14: Dead Bird Count** is the number of dead birds entered as the flock progresses.

**Info 15: Mortality** is expressed as a percentage of the dead birds as the flock progresses.

**Info 23: last accepted weight** is the actual weights of birds that are on the scale.

**Info 31: Weighings Scale 1** is the number of weighings that have been accepted

**Info 40: Temperature 1** gives the actual reading of a particular house

**Info 44: Water Last 24 hr.** gives the water consumption per bird over the last 24 hr.

**Info 45: Water yesterday** gives the water consumption of yesterday

**Info 46: Water total** give the total water consumption per bird for the flock

**Info 50: 1 – water total** displays the total water consumption recorded by the water meter

## 10 INFO HOUSE 1

**This is an information display menu. To look at the information, scroll by pressing the INFO “+ or –” button. The information displayed here will reflect what was initially programmed in and then on a daily basis as information is collected by the Sentinel Scale unit. Information can not be changed on this menu!**

99 Bird-Scale  
10 INFO HOUSE 1  
01 flock id  
1

99 Bird-Scale  
10 INFO HOUSE 1  
02 age  
0 days

99 Bird-Scale  
10 INFO HOUSE 1  
03 act. mean weight  
0.055 lbs

99 Bird-Scale  
10 INFO HOUSE 1  
04 mean growth trend  
+ 0.000 lbs

99 Bird-Scale  
10 INFO HOUSE 1  
05 standard weight  
0.000 lbs

99 Bird-Scale  
10 INFO HOUSE 1  
06 diff. to standard  
0.000 lbs

99 Bird-Scale  
10 INFO HOUSE 1  
07 standard curve  
0> user curve

99 Bird-Scale  
10 INFO HOUSE 1  
08 weighings  
0



**99 Bird-Scale**  
**10 INFO HOUSE 1**  
**09 standard dev.**  
**0.000 lbs**

**99 Bird-Scale**  
**10 INFO HOUSE 1**  
**10 coeff. of var.**  
**10.0 %**

**99 Bird-Scale**  
**10 INFO HOUSE 1**  
**11 uniformity**  
**70.0 %**

**99 Bird-Scale**  
**10 INFO HOUSE 1**  
**12 weigher mode**  
**1> first weighing (or)**  
**2> active**

**99 Bird-Scale**  
**10 INFO HOUSE 1**  
**13 live bird count**  
**0 birds**

**99 Bird-Scale**  
**10 INFO HOUSE 1**  
**14 dead birds**  
**0 birds**

**99 Bird-Scale**  
**10 INFO HOUSE 1**  
**15 mortality**  
**0.00 %**

*Infos 16 – 22 are only available for breeders.*

**99 Bird-Scale**  
**10 INFO HOUSE 1**  
**16 males mean weight**  
**0.000 lbs**

**99 Bird-Scale**  
**10 INFO HOUSE 1**  
**17 males standard weight**  
**0.000 lbs**

**99 Bird-Scale**  
**10 INFO HOUSE 1**  
**18 males diff. to standard**  
**0.000 lbs**

**99 Bird-Scale**  
**10 INFO HOUSE 1**  
**19 standard curve male**  
**0 user-curve 1**

**99 Bird-Scale**  
**10 INFO HOUSE 1**  
**20 live male count**  
**0 birds**

**99 Bird-Scale**  
**10 INFO HOUSE 1**  
**21 dead male count**  
**0 birds**

**99 Bird-Scale**  
**10 INFO HOUSE 1**  
**22 male mortality**  
**0 birds**

**99 Bird-Scale**  
**10 INFO HOUSE 1**  
**23 1. weight scale 1**  
**0.000 lbs**

**99 Bird-Scale**  
**10 INFO HOUSE 1**  
**31 weighings scale 1**  
**0**

**Infos 39 & 41** will not be activated if only one sensor is active in house 1. Only **info 40** will be active and show a temperature.

**99 Bird-Scale**  
**10 INFO HOUSE 1**  
**39 average temp.**  
**80.0 F**

**INFO 39** is active only if two or more sensors are activated to house 1 and will show the average of the two temperatures.

**99 Bird-Scale**  
**10 INFO HOUSE 1**  
**40 temperature sensor 1**  
**80.1 °F**

**99 Bird-Scale**  
**10 INFO HOUSE 1**  
**41 temperature sensor 2**  
**100.0 °F**

**99 Bird-Scale**  
**10 INFO HOUSE 1**  
**44 water last 24 h**  
**0.000 gal/bird**

**99 Bird-Scale**  
**10 INFO HOUSE 1**  
**45 water yesterday**  
**0.000 gal/bird**

**99 Bird-Scale**  
**10 INFO HOUSE 1**  
**46 water total**  
**0.000 gal/bird**

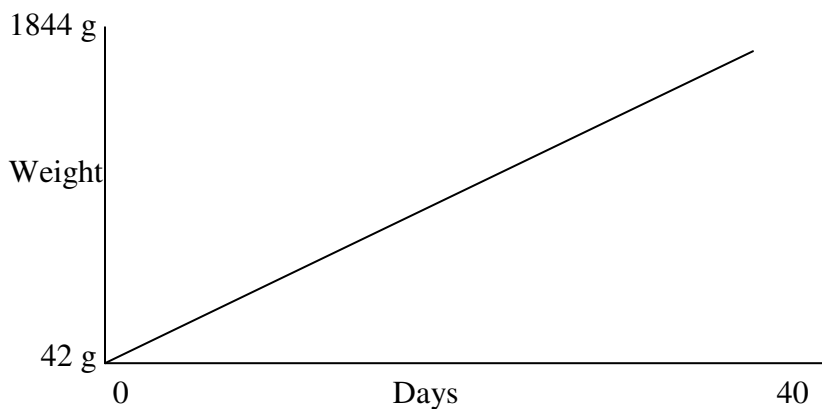
**99 Bird-Scale**  
**10 INFO HOUSE 1**  
**57 8 – water total**  
**0.000 gal/bird**

## STANDARED CURVE - INFORMATION MENU

Standard curve is the “expected” growth rate or curve of different breeds of poultry over a set period of time. The load curves supplied by your poultry supplier will have to be input. There are some load curves already imbedded in the program that may suit your needs.

An example of a breed or load curve will have data indicating the weight of day 0 and the end date at day 40 and everything in between.

The end result will be a graph looking something like this:

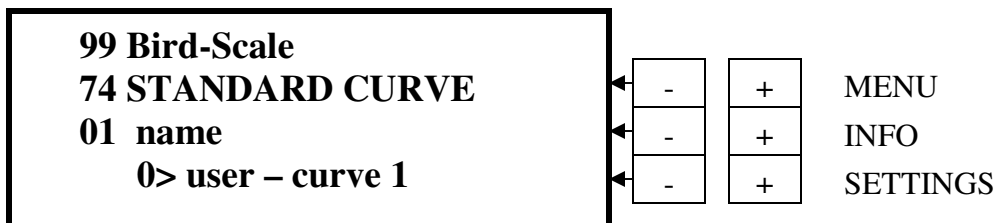


There should be a steady climb in weight from day 0 to day 35.

Graphing does not appear on the BE-SSC-101. The BE-SSC-101 only gathers and holds the data for use with the Sentinel Scale Optilink program used with a PC which enables the PC to produce the graphs.

## 74 STANDARD CURVE

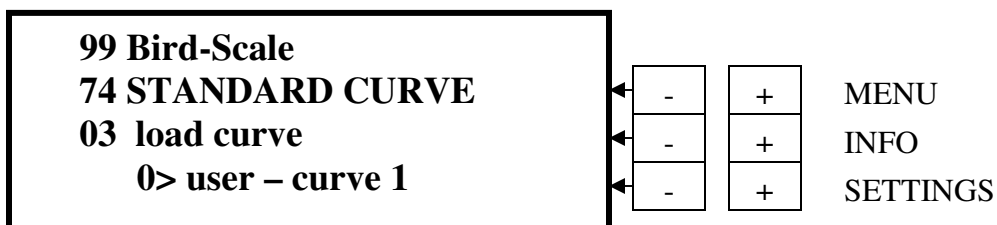
On this menu, you'll enter the standard curve weights for your birds. To get to this menu, press the **MENU “-”** button from the **General Settings Menu**.



Press **INFO “+”** to go to **info 02**.

Press **SETTINGS “+”** to go to **1> on**.

Press **SETTINGS “+”** once more to get **2> load**



Press **INFO “+”** to go to **info 03**.

Press **SETTINGS “+”** to go past **user curve >0 - >7**.

Press **SETTINGS “+”** **again** to choose types of birds **>8 - >48**

Select the breed curve from 8 to 48 that you wish to use.

**If your breed curve is not pre-loaded in the DWS – 20, you will have to enter your own curve. See page 31 to input your own breed curve.**

<b>99 Bird-Scale</b>	←	-	+	MENU
<b>74 STANDARD CURVE</b>	←	-	+	INFO
<b>04 save to</b>	←	-	+	SETTINGS
<b>0&gt; user-curve 1</b>				

Press **INFO “+”** to go to **info 04**.

Press **SETTINGS “+”** to select a user-curve to save to (1-8)

<b>99 Bird-Scale</b>	←	-	+	MENU
<b>74 STANDARD CURVE</b>	←	-	+	INFO
<b>05 execute</b>	←	-	+	SETTINGS
<b>0&gt; no (yes)</b>				

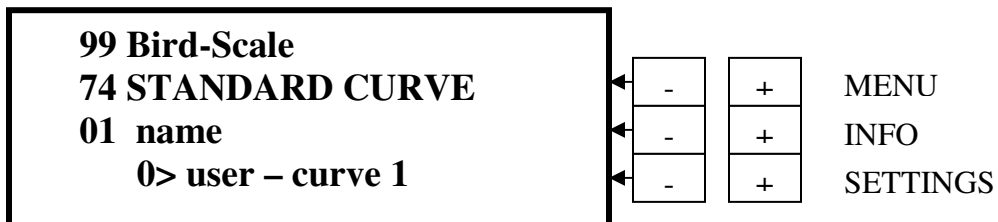
Press **INFO “+”** to go to **info 05**.

Press **SETTINGS “+”** and hold it for 6 seconds until the display changes to **“yes”**. Release the **“+”** key; after a few seconds **“yes”** will change back to **“no”**. This is supposed to happen. You have now loaded your breed curve.

<b>99 Bird-Scale</b>	←	-	+	MENU
<b>74 STANDARD CURVE</b>	←	-	+	INFO
<b>01 name</b>	←	-	+	SETTINGS
<b>48&gt; US R508 Br.m</b>				

Press **INFO “-”** to go to **info 01**. You should see the breed curve you selected listed here. If you do not, repeat the above steps to select your curve.

## LOADING A CUSTOM BREED CURVE:



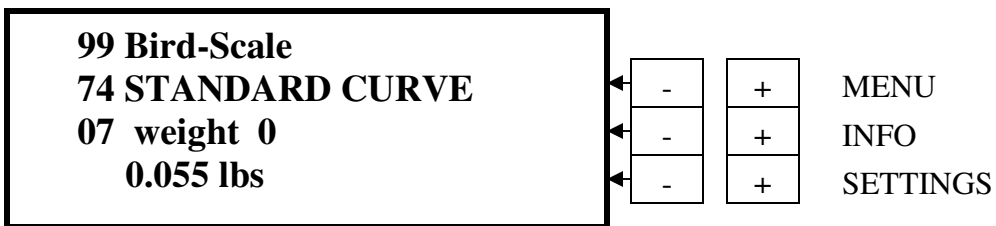
To get to this menu, press the **MENU “-”** button from the **General Settings Menu**.



Press **INFO “+”** to go to **info 02**.  
Press **SETTINGS “+”** to go to **1> on**.

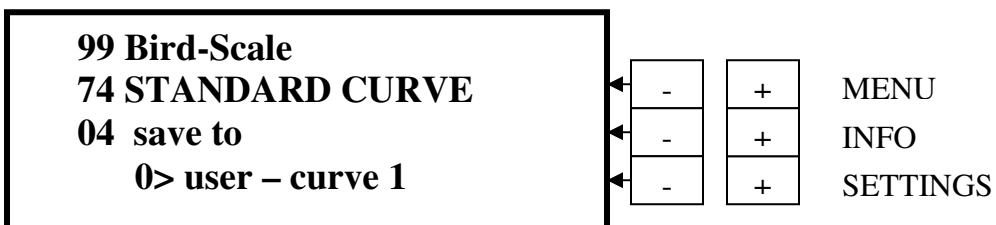


Press **INFO “+”** to go to **info 06**.  
Press **SETTINGS “+ or -”** to input the age of the birds. Follow your specific breed curve charts provided by your supplier. Normally the first day is put in as “0” and then enter the age of the birds at three or seven day intervals (depending on the chart provided by the supplier) up to 44 age points on **info 94**.



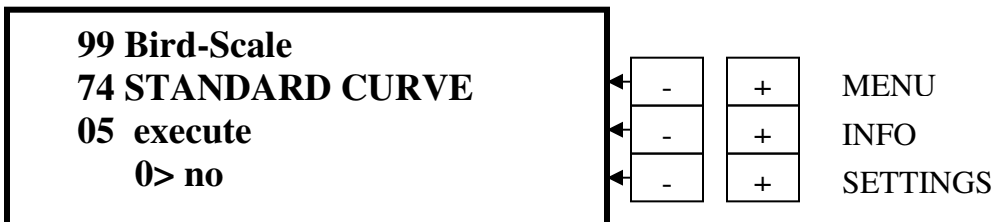
Press **INFO “+”** to go to **info 07**.

Press **SETTINGS “+ or -”** and hold to input the weight of the birds. Follow your specific breed charts. Normally the first day is put in as “0” and then enter the weight of the birds at three or seven day intervals up to 44 age points on **info 95**.



Press **INFO “-”** to go to **info 04**.

Press **SETTINGS “+”** to go to **user curve >0 ->7**.



Press **INFO “+”** to go to **info 05**.

Press **SETTINGS “+”** and hold it for 6 seconds until the display changes to “**yes**”. Release the “+” key; after a few seconds “**yes**” will change back to “**no**”. This is supposed to happen. You have now saved your custom breed curve.

Once a new curve is installed, input the curve to each house.



## HISTORY MENUS - INFORMATION MENU

- 1) Once the BE-SSC-101 unit has been programmed, the history menu information stored for fifty days in the unit will not be lost if the unit is turned off or on. There is a backup battery to hold this information.
- 2) However, once a flock has been turned off and a new flock started, then the previous history menus will be lost and new ones started.

### History menus are found by pressing MENU “+ or -”

#### **Definitions:**

#### **Menu 18 - Average Weight House 1-4:**

This is the average weight of the birds for house 1-4 over a 24 period. By pressing the Settings key + or - you can see the different averages of past days for comparisons.

#### **Menu 26 - Growth Last 24 Hours House 1-4:**

Growth Last 24 Hours tracks the weight gain of the flock in house 1-4 on a daily basis. By pressing the Settings key + or - you can see the different growth weights of past days for comparisons.

#### **Menu 34 - Difference to Standard House 1-4:**

The Difference to Standard is the difference + or – between the “actual mean weight” to the standard weights, be they from the load curves already in the computer or ones that you have entered from your supplier’s weight sheets. By pressing the Settings key + or - you can see the differences of past days for comparisons.

#### **Menu 42 - Weighings House 1-4:**

This displays the total number of accepted weights from all of the selected scales. By pressing the Settings key + or - you can see the weights of past days for comparisons.

#### **Menu 50 - Standard Deviation House 1-4:**

The Standard deviation indicates the number of grams by which the birds on average deviate from the mean weight. By pressing the Settings key + or - you can see the differences of past days growth weights for comparisons.

#### **Menu 58 - Variation Coefficient House 1-4:**

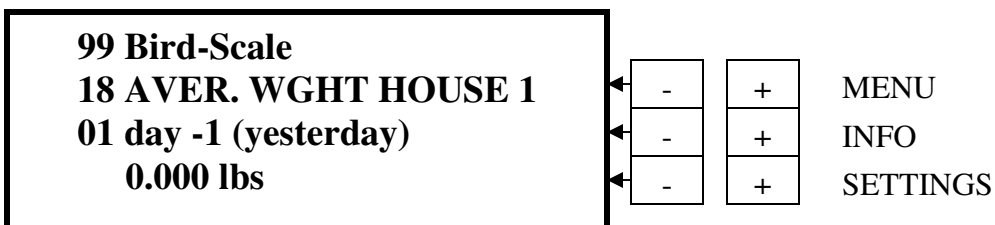
The Coefficient of Variation is the standard deviation expressed as a percentage of the average weight. By pressing the Settings key + or - you can see the differences of past days for comparisons.

#### **Menu 66 - Uniformity House 1-4:**

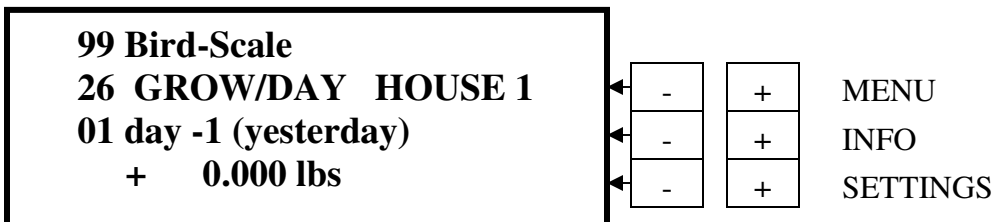
Uniformity shows the evenness expressed as a percentage of the birds within the flock. By pressing the Settings key + or - you can see the differences of past days for comparisons.

## 18, 26, 34, 42, 50, 58, 66 - HISTORY MENUS

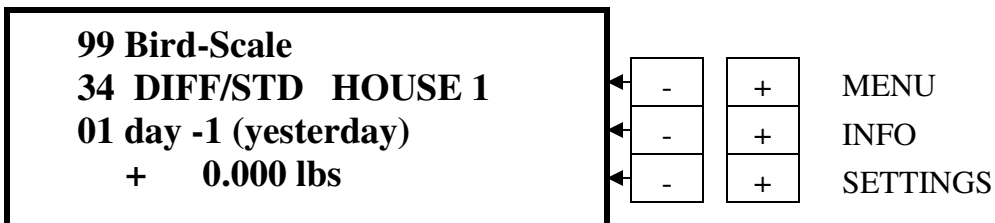
History menus will display numeric values back in time for up to 50 days. Each menu will change at midnight with new data.



This menu will give you the Average Weight for each house. From General Settings, press **MENU “+”** to get to the above screen. By pressing **INFO “+ or -”** you can scroll through 50 days of weight values.



This menu will give you the Growth for the last 24 hours. From General Settings, press **MENU “+”** to get to the above screen. By pressing **INFO “+ or -”** you can scroll through 50 days of weight values.



This menu will give you the Difference to Standard for the last 24 hours. From General Settings, press **MENU “+”** to get to the above screen. By pressing **INFO “+ or -”** you can scroll through 50 days of weight values.

<b>99 Bird-Scale</b> <b>42 WEIGHINGS HOUSE 1</b> <b>01 day -1 (yesterday)</b> <b>0</b>	←	-	+	MENU
	←	-	+	INFO
	←	-	+	SETTINGS

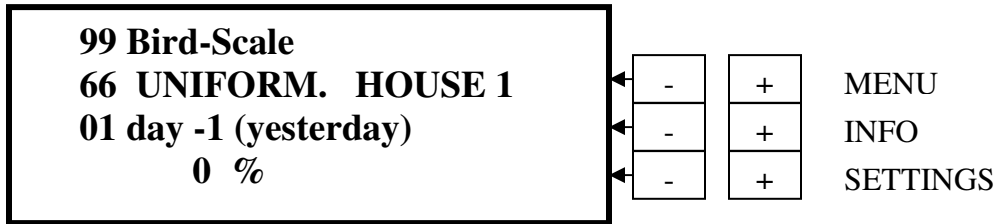
This menu will give you the Weighings for House 1 for the last 24 hours. From General Settings, press **MENU “+”** to get to the above screen. By pressing **INFO “+ or -”** you can scroll through 50 days of values.

<b>99 Bird-Scale</b> <b>50 STAND. DEV HOUSE 1</b> <b>01 day -1 (yesterday)</b> <b>0.000 lbs</b>	←	-	+	MENU
	←	-	+	INFO
	←	-	+	SETTINGS

This menu will give you the Standard Deviation for House 1 for the last 24 hours. From General Settings, press **MENU “+”** to get to the above screen. By pressing **INFO “+ or -”** you can scroll through 50 days of weight values.

<b>99 Bird-Scale</b> <b>58 VAR COEFF HOUSE 1</b> <b>01 day -1 (yesterday)</b> <b>0 %</b>	←	-	+	MENU
	←	-	+	INFO
	←	-	+	SETTINGS

This menu will give you the Variation of Coefficient for House 1 for the last 24 hours. From General Settings, press **MENU “+”** to get to the above screen. By pressing **INFO “+ or -”** you can scroll through 50 days of percentage values.



This menu will give you the Uniformity for House 1 for the last 24 hours. From General Settings, press **MENU “+”** to get to the above screen. By pressing **INFO “+ or -”** you can scroll through 50 days of percentage values.

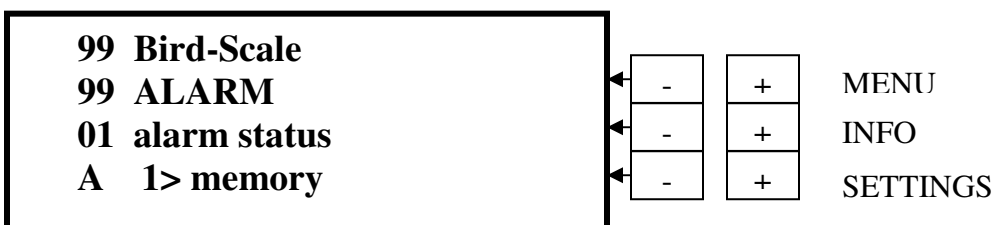
## ALARM INFORMATION MENU

The Alarm Menu (99 ALARM) is found by pressing MENU “-” from the GENERAL SETTINGS Menu

**Note: INFO 1> Memory alarm**

When the BE-SSC-101 is powered up for the first time, it will go into a state of alarm, saying **\*\*INTERNAL ERROR\*\* MEMORY IS CLEARED.**

Press the F1 button to get to the main screen, GENERAL SETTINGS



Press MENU “-” to go to **Menu 99 ALARM.**



Press **INFO “+”** to go to **info 02.**

Press **SETTINGS “-”** until it displays **0> reset**

Press **SETTINGS “+”** to go back to **2> on**

### Possible Causes of a State of Alarm:

- 2> Alarm scale 1
- 3> Alarm scale 2
- 4> Alarm scale 3
- 5> Alarm scale 4

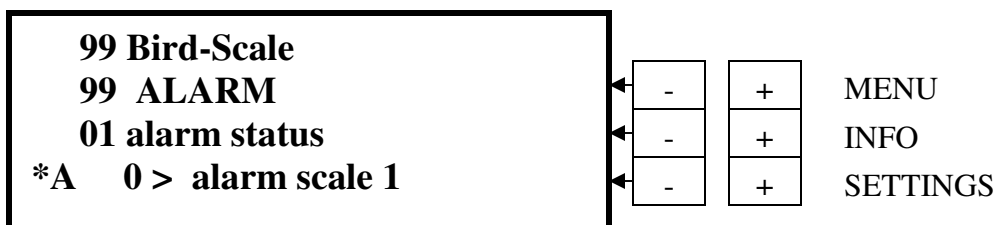
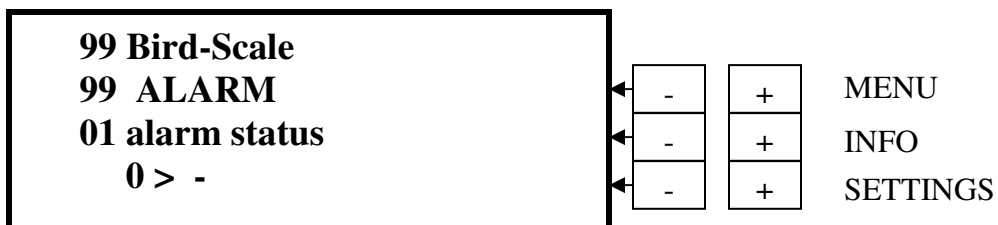
There were no weighings on the scales after 24 hours

- 10> No weighings in house 1
- 11> No weighings in house 2
- 12> No weighings in house 3
- 13> No weighings in house 4

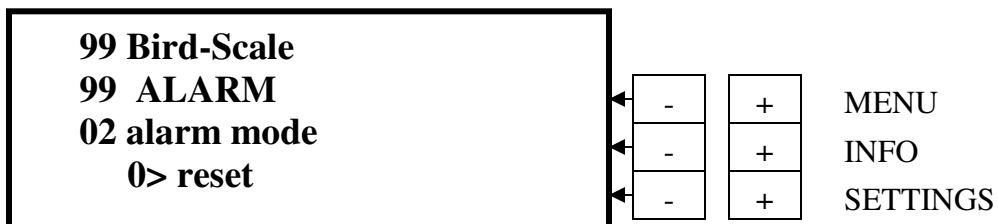
There were no weighings recorded from any scale in that house after 24 hours.  
e.g. the house was not turned off when the birds were shipped.

## 99 ALARM

Press **MENU “-”** from the General Settings menu to see this screen.

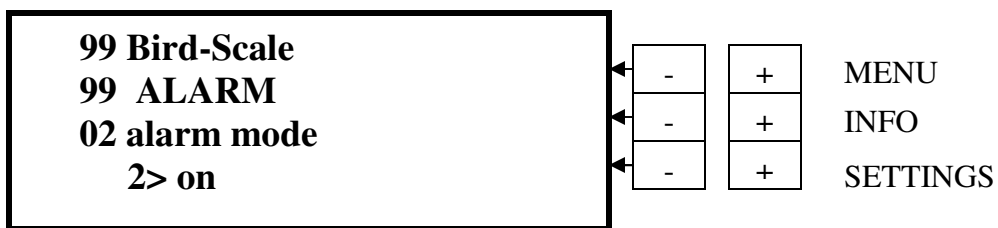


If the system goes into a state of alarm, you'll see the top info **“99 BE-SSC-101 Bird-Scale”** and at the bottom info an **“\*A”**, flashing off & on. There will be an alarm message in **info 0> - e.g. alarm scale 1**



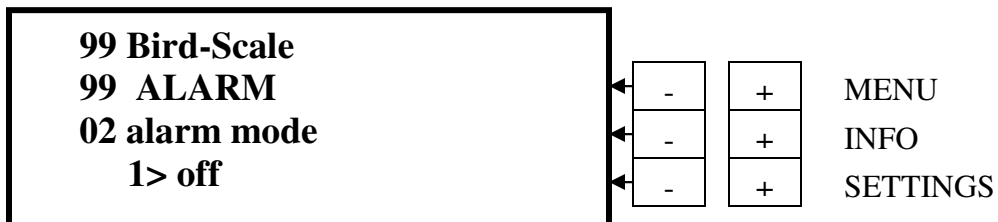
Possible causes of an alarm could mean that there were no weighings on the scales after 24 hours or the house was not turned off after the birds were shipped.

To reset the alarm, Press **SETTINGS “-”** to get **0> reset**. This should reset the alarm.



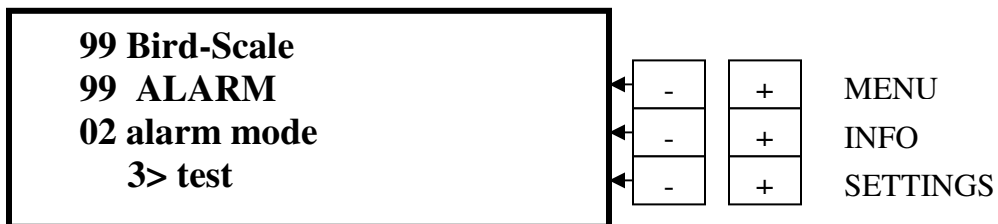
Press **INFO “+”** to get to **02 alarm mode**.

Normally, **2> on** will indicate that the alarm is activated and will react if an alarm occurs.



If the flock is finished, be sure to turn the alarm off.

Press **SETTINGS “+”** to get **1> off**



To test the alarm, press **SETTINGS “+”** to get **3> test**. You’ll see the top info **“99 BE-SSC-101 Bird-Scale”** and at the bottom info a **“\*A”**, both will flash on & off. Press **SETTINGS “-”** to go back to **2> on**