D4041-EN EZ3410 Operators Manual Rev B LAC

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1.0 INTRODUCTION

Thank you for your purchase of a Digi-Star EZ3410 scale indicator. Your EZ3410 is the culmination of more than 30 years of agricultural weighing engineering and expertise. With proper operation and preventative maintenance the EZ3410 will last for many years.

The Digi-Star EZ3410 is primarily designed for weighing agricultural animal feed products during the loading and unloading of mobile and stationary feed mixers. The EZ3410 can also be used on feed delivery boxes, forage wagons, grain carts, and animal scales.

The EZ3410 is not for use with applications for which the EZ3410 is not intended, or as outlined in this manual.

Use of the EZ3410 outside of its intended purposes may result in inaccurate weight measurement or damage to instrument.

1.1 Important: Record of Setup, Calibration & Model Numbers

See Section 14 for how to access the Setup and Calibration numbers that were originally delivered with your indicator and equipment or note the correct or customized Setup and Calibration numbers here.

SETUP NUMBER ______________________

CALIBRATION NUMBER _________________

MODEL NUMBER________________________
2.0 EZ3410 SPECIAL FEATURES

Recipe Formulation and Batching

The EZ3410 Indicator is designed to build a choice of recipes for one or more pens and provides easy to utilize basic recipe and batching capabilities. Recipes can be entered by three different methods;

- Amount of each Feed Ingredient, Per Animal
- Percent of Feed Ingredient, Per Load
- Amount of Feed Ingredient, Per Load

Programming recipes is logical and intuitive using the direction keys so that the user can easily add new recipes and edit existing recipes. The user can define and choose from 1 to 99 ingredients and pens using any combination thereof (example 15 ingredients and up to 84 pens).

See Section 9.6 for details on how to utilize the Batching capabilities.

Preset Weight

The EZ3410 indicator provides simple to use and very useful Preset Weight feature. Using the numeric keypad the operator can enter the desired weight of product that the operator wants to load or unload. Once loading or unloading begins the EZ3410 will count down to 0 (zero). As the weight approaches 0 the audio and visual alarms will begin to pulse with the frequency of the pulses increasing the closer the preset weight gets to 0. At 0 the alarm light and buzzer will sound continuously.

See section 8.0 for details.

Rotation Counter / Timer

The Rotation Counter / Timer provides the useful benefit of monitoring mix revolutions or mix time and a warning light, buzzer, or external signal will indicate when the desired mix revolutions or time has been achieved. For this the EZ3410 uses an optional Rotation Counter Sensor (See Option Equipment Section: 18) which is fitted to the drive line of the feed mixer.

See section 18.5

Maintenance Message

The Maintenance Message is available with the Machine Hour Meter function noted above and provides the ability for the equipment manufacturer or equipment owner to utilize the EZ3410 to display a specific Service or Maintenance message after a predetermined period of operation similar to a Change Oil message in an automobile.

See section 8.12 for details.

Machine Hour Meter

The EZ3410 when fitted with the Rotation Counter Sensor can be configured to record hours of operation. The Machine Hour Meter can provide valuable information to aid the user in determining when maintenance and upkeep is required.

See section 8.13 for details.
3.0 ACCURACY STATEMENT

READ THIS SECTION BEFORE USING THE SCALE SYSTEM

Digi-Star Scale Systems are designed and manufactured to provide the greatest accuracy possible. However, proper installation and use are required in order to obtain the highest level of accuracy.

When using the scale system the following must be considered in order to realize the best possible performance and accuracy.

- Load cells must be installed with the proper orientation. Most Digi-Star load cells have a label indicating either the “TOP” or bending direction of the load cell. Inspect load cells to determine if the load cells are installed correctly. Incorrect installation of load cells will result in inaccurate measurement.
- Load cells should not be subjected to any strains or loads other than the weight of the load. Stress or strain caused by misalignment or other factors when accurate weight readings are desired will negatively affect the accuracy.
- The weighing unit should be stationary with minimum movement, and on a level surface, to insure that weight readings are as accurate as possible.
  - The effect of movement on accuracy depends on the speed and roughness of the ground and application. Rougher terrain and faster and/or greater movement increases the degradation of accuracy.
  - A level surface is defined as being less than a 5” (13cm) change in rise over 10’ (3.0m) of run. As the slope of the terrain increases, degradation of accuracy will also increase.
## 4.0 TECHNICAL SPECIFICATIONS

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<th>Description</th>
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<td><strong>SIZE</strong></td>
<td>10.25” long x 8.0” high x 4” wide (260mm x 190mm x 105mm)</td>
</tr>
<tr>
<td><strong>WEIGHT</strong></td>
<td>4.5 lbs. (2.04 Kg)</td>
</tr>
<tr>
<td><strong>HELP MESSAGES</strong></td>
<td>Context sensitive help messages in 10 languages, Long messages are scrolled</td>
</tr>
<tr>
<td><strong>LOAD CELL EXCITATION</strong></td>
<td>8 volts D.C. Nominal, Capable of driving ten 350 Ohms transducers, Short circuit proof</td>
</tr>
<tr>
<td><strong>AUTO TEMPERATURE COMPENSATION</strong></td>
<td>Of internal circuitry for high accuracy weighing measurements</td>
</tr>
<tr>
<td><strong>LOAD CELL SIGNAL</strong></td>
<td>Compatible with Load Cells with greater than 0.25 mv/v</td>
</tr>
<tr>
<td><strong>CONNECTORS</strong></td>
<td>AMP plastic weather resistant circular connector. Gold plated contacts.</td>
</tr>
<tr>
<td><strong>POWER REQUIREMENTS</strong></td>
<td>10.5 to 16.0 V.D.C.  160 mA nominal with four 350Ω L.C.</td>
</tr>
<tr>
<td><strong>SET UP AND CALIBRATION</strong></td>
<td>Via front panel or saved when downloading the setting files.</td>
</tr>
<tr>
<td><strong>GROSS RANGE</strong></td>
<td>999,999 max-display</td>
</tr>
<tr>
<td><strong>LOW BATTERY WARNING</strong></td>
<td>Enabled at 10.5V nominal</td>
</tr>
<tr>
<td><strong>POUND/KILOGRAM</strong></td>
<td>Selectable</td>
</tr>
<tr>
<td><strong>DISPLAY</strong></td>
<td>6 Digit Chip On Glass LCD 1.7” high</td>
</tr>
<tr>
<td><strong>DISPLAY RESOLUTION</strong></td>
<td>.01, .02, .05, .1, .2, .5, 1, 2, 5, 10, 20, 50, 100</td>
</tr>
<tr>
<td><strong>DISPLAY UPDATE RATE</strong></td>
<td>Selectable: 1, 2, 3, 4 times/sec.</td>
</tr>
<tr>
<td><strong>MAX. DISPLAY RESOLUTION</strong></td>
<td>Adjustable to 40,000 counts max.</td>
</tr>
<tr>
<td><strong>ZERO TRACKING</strong></td>
<td>Selectable, On/Off</td>
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<tr>
<td><strong>SPAN ACCURACY</strong></td>
<td>±(1% + .005%/ °F) or (.1% + 0.009% °C) full scale ± 1 output count</td>
</tr>
<tr>
<td><strong>MOTION DETECTION</strong></td>
<td>Selectable, On/Off</td>
</tr>
<tr>
<td><strong>ZERO ACCURACY</strong></td>
<td>(.005%/ °F) or (0.009% °C) full scale ±1 output count for 0.5 mv/v transducer</td>
</tr>
<tr>
<td><strong>ENVIRONMENTAL ENCLOSURE</strong></td>
<td>IP65, IEC 529</td>
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<tr>
<td><strong>WEIGH ALGORITHM</strong></td>
<td>3 internally selectable digital filters to optimize performance (General, Slow, and Fast)</td>
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<td><strong>HOLD MODE</strong></td>
<td>Used in mobile applications to stabilize displayed weight while moving the scale</td>
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<td><strong>NON-VOLATILE MEMORY</strong></td>
<td>Standard</td>
</tr>
<tr>
<td><strong>OPERATING TEMP</strong></td>
<td>-29°C to 60°C   -20°F to 140°F</td>
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<td>Tare /Print / Hold / Net Gross / M+ / Zero / TR Hold / Re-enter Preset / Switch/ INGRED</td>
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5.0 SAFETY DURING USE

⚠️ **Danger:** Indicates an imminently hazardous situation that, if not avoided, could result in death or very serious injury.

⚠️ **Warning:** Indicates a potential hazardous situation that, if not avoided, may result in death or very serious injury.

⚠️ **Caution:** Indicates a potential hazardous situation that, if not avoided, may result in a minor injury.

**NOTE!**

**Cleaning:** Do not use running water, pressure washer or hoses to clean the indicator or touch screen.

**Charging Battery:** Disconnect all cables from the indicator and touch screen before charging the battery or welding on the machine. If cables are left connected, the indicator, touch screen and connected load cells could be damaged.
6.0 INDICATOR OVERVIEW

1. **ZERO** - Press and hold for three seconds to zero balance.

2. **Re-Alarm Light** - Starts flashing and alarm sounds when weight is within preset limit.

3. **Holding button** - Holds displayed weight when moving machine

4. **Mixing timer** - Mixing timer runs down, alarm sounds / Rotation counter is added to count shaft rotations, alarm sounds.

5. **ON** - Turns indicator on. Pressing while on will run self-test.

6. **OFF** - Turns scale indicator off.

7. **Display Window** – Displays current actions.

8. **TARE** - Press TARE button for temporary zero when adding more weight.

9. **Print** - Records to memory or prints displayed weight.

10. **NET/GROSS** - Toggles between NET and GROSS weights.

11. **Select recipe** - Selects recipes in memory

12. **ID** - Enter user’s ID number and feeding ID number when using the keypad.
13 CLEAR - Clear the characters on LCD (backspace)
14 - Display additional tasks for the user..
15 - Accepts change or proceeds to next item.
16 **Directional Arrows** – Moves through list of information. Left arrow (-) and right arrow (+)
17 **Keypad** – Input numbers or letters

**Indicator Connections Overview**

18 **Serial/Printer Port** – Communicate with computer and other digital input/output devices.
19 **Remote Port** – Optional remote display.
20 **Load Cell Port** – For J-Box Cord.
21 **Power Port** – For Power Cord.
22 **Serial Number Plate** – Serial Number of Indicator.
7.0 OPERATION

7.1 Turn Indicator On and Off

1. Press \( \text{ON} \) to turn indicator on. Indicator will turn on and display “HELLO”, a message may follow, and indicator will then display a number for the weight in the bin.

2. Press \( \text{OFF} \) to turn indicator off.

7.2 Zero Balance Indicator

If the bin is empty and the weight displayed is not zero (0) this procedure will reset the weight to zero (0). **NOTE:** The buildup and removal of debris and feed in a bin will cause the weight of an empty bin to change over time. In addition changes in temperature over time can also cause changes in the displayed weight. The Zero Balance function is provided to counter-act these natural events

1. Press and hold \( \text{ZERO} \) for three seconds to zero balance scale.

2. Indicator will display \( \text{ZERO} \) and will then display 0.

3. Flashing arrow on side of display points to gross next to the display window, scale is ready to weigh.

7.3 Tare and Net Gross

Tare is function of the scale where a temporary zero weight (NET) can be set while the total weight (GROSS) is retained in memory. Tare is a useful function that makes it easier to add specific amounts of ingredients to a bin that already contains material. To switch from the NET to GROSS, or from GROSS to NET press \( \text{NET/GROSS} \).
1. Starting weight is displayed. Example: 4000

2. Press to set weight to zero. Flashing arrow points to net.

3. Add more weight and display reads added weight value.
4. To show total of original weight of 4000 plus added 300, press \( \text{NET} \) again, flashing arrow on side of display points to GROSS.

5. Pressing \( \text{NET} \) again shows the net weight of 300. In Net mode flashing arrow points to NET.
7.4 Print Key

The print key has dual function capabilities.

1. When a Printer is connected to serial port of the Indicator pressing PRINT will print the weight displayed on the Indicator along with the time and date. See section 18 for information on the Printer Option.
2. When a Data Download (DDL) Kit is connected to the serial port of the Indicator pressing PRINT will save the weight displayed on the Indicator, along with the time and date, to the DDL device. See section 18 for information on the DDL Kit Option.

**NOTE:** Indicators without a serial port can have a serial port installed by an Authorized Digi-Star Service Center

**NOTE:** When using the DS/RDS ICP-300 the PARITY must be set to NONE. See Section 16.

1. Press to send data to printer or PC. Flashing arrow on side of display points to DATA.
8.0 ADVANCE COMMANDS

8.1 Preset

Enter amount to be loaded or unloaded. Alarm sounds as zero is approached.

1. Enter desired preset weight using key pad.
2. Press \( \text{Note: Indicator rounds weight to nearest display count. If display count is set to 10 and 3004 is entered, Indicator will round to 3000).} \)
3. Once preset entered, display shows the weight loaded or unloaded in one of three display modes:
   - Preset Displays Gross Mode
   - Load/Unload Mode
   - Net Mode

8.2 Clear Preset Alarm

1. Press \( \text{Clear} \) to clear preset value.
8.3 Preset-Preset Displays Gross Mode

1. Example: Using keypad enter 3000.
2. Press \[\text{Gross}\].

As ingredients are loaded the display counts up to the value entered.

The display alternates between flashing word \text{PRESET} and shown weight, until 10 percent of weight is loaded, at which point only the preset weight will be displayed.

8.4 Preset-Load/Unload Mode

1. Example: Using keypad enter 3500.
2. Press \[\text{Net}\].

As ingredients are loaded or unloaded the display counts down from the entered preset value to zero.

The display alternates between flashing word \text{PRESET} and shown weight, until 10 percent of weight is loaded or unloaded, at which point only the preset weight will be displayed.

8.5 Preset-Net Mode

1. Example: Using keypad enter 4000.
2. Press \[\text{Net}\] twice.

As ingredients are loaded or unloaded the display counts up from zero to the value entered.

The display alternates between flashing word \text{PRESET} and shown weight, until 10 percent of weight is loaded or unloaded, at which point only the preset weight will be displayed.
8.6 Preloading a Tare

Preloading a Tare is used in special circumstances such as when using a mixer scale to weigh something in a separate bin when only the weight of the material in the bin is desired. **This function will only work if the actual weight of the bin is known.** The empty “Tare” weight of the bin is preloaded (using the key pad) into the Indicator in order to display the Net weight of the material within the bin.

1. Enter 1103, press \[\text{select}\] . Press UP arrow or \[\text{select}\] to enable this feature. Then press \[\text{select}\] to return to weighing mode.
2. Press and hold \[\text{select}\] for 3 seconds to zero balance the indicator.
3. Add load to the bin
4. Enter known weight of unloaded bin using keypad.
5. Press \[\text{tare}\] to save weight.
6. Press \[\text{clear}\] for total weight.

8.7 Mixer Timer

With Mixer Timer enabled, the Indicator performs a stopwatch with alarm function to measure and aid in controlling the length of the mixing time. This function assists the user in maintaining the correct mixing time.

**Note:** To enable Mixer Timer, enter 4301, then press \[\text{select}\] and choose TIMER feature using the \[\text{select}\] button. Press \[\text{select}\] to save this selection.

1. Press \[\text{t} \] .
2. Use the numeric keypad to enter the amount of time.
3. Press \[\text{t}\] .
4. The time runs down to zero and the alarm sounds. When timer is left running, the display will show a negative time indicating the length of time that the mixer was mixing pass the value the user had entered.
5. Press \[\text{clear}\] to exit.
8.8 Restart Timer for Mixing

Feature used to re-use the last Mix Time that was entered into the Indicator.

1. Press \text{.Time} twice, without entering a new value starts the timer using the previous time that was entered.

Example: 7 minutes 30 seconds

8.9 Rotation Counter

With Rotation Counter turned on the Indicator counts the number of mixer rotations during the mixing process. This function assists the user in maintaining the correct mixing based on the number of turns of the mixer. Installation of the optional 410002 Rotation Sensor is required for this functionality.

See section 2.0 for information and section 8.9 for setup

Note: First enter D.A.N. 4301, Press \text{Select}. Choose \text{Counter} feature and press \text{Save} to save selection. Indicator will stay in the Rotation Counter mode until this selection is changed.

1. Press \text{Rotation Counter}.

2. Use the numeric keypad to enter the number of rotations.

3. Press \text{Save}.

4. The Rotation Counter will begin to count down when the PTO starts rotating

5. When the counter reaches zero the alarm light and buzzer will turn on.

6. Press \text{Clear} to exit.
8.10 Re-Starting the Rotation Counter

Function used to re-use the last Rotation Counter setting that was entered into the Indicator.

1. Press twice, without entering a new value starts the counter using the previous count that was entered.

8.11 Setting the Drive Ratio

**Drive ratio value is:** number of turns seen by the Rotation Sensor divided by the number of Mixer rotations. Example: If the PTO turns at 1000 rpm for 1 minute and results in 20 turns of the mixer the Drive Ratio is 50:1.

1. Enter D.A.N. 4302 and press .
2. Enter drive ratio value using the keypad.
3. Press .
8.12 Maintenance Message

Message can be used to alert the user of maintenance needed to be done on the equipment. Rotation Counter Sensor Kit--(p/n: 410002) needed for this feature. For proper maintenance Schedule, refer to equipment operators manual(s).

1. Enter D.A.N. 8011 then press . The user may edit the maintenance message using keypad.

2. is displayed on LCD, then edit maintenance message by using keypad.

Example: Pressing key pad “1” one time will show 1, pressing two times will show “A”, pressing three times will show “B”, pressing four times will show “C”.

Note: There are ten (10) MANTMG windows to enter the Maintenance Message. Six letters, spaces, or numbers, fit in each MANTAG window. The maximum length of the complete maintenance message, including spaces, is 60 characters. The entire message from each of the MANTMG windows will display and scroll as one message.

Example message; “CHANGE MAIN GEARBOX OIL” contains 23 characters and will require 4 MANTMG windows setup as; “CHANGE_“, “MAIN_G“, “EARBOX“, “_ OIL__“
8.13 Machine Hour Meter

The Machine Hour Meter sets the number of hours that the mixer is to operate before displaying the Maintenance Message. This function requires the optional 410002 Rotation Sensor. See section 18 for information.

1. Enter 8012 and press \[\text{SELECT}\].

2. Enter number of hours for maintenance message to be triggered using the key pad and press \[\text{SELECT}\].

Example: 50 hours. The maintenance message will be displayed on the indicator after 50 hours of operation.

NOTE: Clearing Maintenance Message Time by entering 8013 and press \[\text{SELECT}\]. Then enter “0” using key pad. Then press \[\text{SELECT}\] to save, or a new maintenance message time maybe entered by using the key pad, then press \[\text{SELECT}\]. User will need to acknowledge the maintenance message by pressing the \[\text{ON}\] key. **Once the allotted time is reached the Maintenance Message will display at each power-up and at every 4 hours of operation until user enters a new value for the Machine Hour Meter.**

8.14 Review Accumulated Ingredient Values

This function is used to display the total amount of each ingredient used since the Ingredient was setup or the last time the values were erased.

1. Repeatedly press \[\text{SELECT}\] until \[\text{ACCUM}\] displayed.

2. Press \[\text{SELECT}\].

3. Press UP or DOWN arrow to display accumulation of other ingredients.

4. Press RIGHT arrow to display pens. Press LEFT arrow to display ingredients.

5. Press \[\text{SELECT}\] to exit.
8.15 Erase Accumulated Values

1. Repeatedly press \( \text{SELECT} \) until \( \text{ACCUM} \) displayed.
2. Press \( \text{ACCUM} \). Ingredient is displayed. Example: \( \text{CORN} \)
3. Press UP or DOWN arrow to display accumulation of other ingredients. Press RIGHT arrow to display pens. Press LEFT arrow to display ingredients.
4. Press and hold \( \text{CLEAR} \) indicator scrolls: \( \text{CLEAR TO ERASE, CLEAR/CLEAR TO ERASE ALL} \)
5. Press \( \text{CLEAR} \) once to erase ingredient displayed.
6. Press \( \text{CLEAR} \) twice to erase all accumulation of ingredients for recipe selected.
7. Press \( \rightarrow \) to exit.

NOTE: Clearing of ingredients and pens are separate, See section 11.6.

8.16 Print Accumulated Values of Active Ingredients

1. Repeatedly press \( \text{SELECT} \) until \( \text{ACCUM} \) displayed.
2. Press \( \rightarrow \)
3. Press UP or DOWN arrow to display accumulation of other ingredients.
4. Press RIGHT arrow to display pens. Press LEFT arrow to display ingredients.
5. Press \( \text{PRINT} \) to print accumulation value for active ingredient /pen.
8.17 Print Accumulated Values of All Ingredients/Pens

1. Repeatedly press \( \text{Accum} \) until \( \text{Accum} \) displayed.

2. Press \( \text{Accum} \).

3. Press \( \text{Accum} \) twice to print all ingredients/pens used in recipes.

4. Press \( \text{Accum} \) three times to print all ingredients/pens saved on the indicator.
9.0 COMMONLY USED DIRECT ACCESS NUMBERS (D.A.N.)

9.1 Pre-Alarm

Select weight or percentage method, enter value to activate early warning indicator reaching preset.

1. Enter 4001 and press \( \text{SELECT} \).
2. Press UP arrow to change between \( \text{WEIGHT} \) and \( \text{PERCENT} \).
3. Press \( \text{ENTER} \) to save.
4. Enter Pre-Alarm value. Press \( \text{ENTER} \) to save.

9.2 Ingredient – Tolerance and Method

Sets Auto Advance to trigger prior to reaching preset weight by weight or percentage.

1. Enter 6003 and press \( \text{ITMTHD} \) will flash and \( \text{WEIGHT} \) will display.
2. Repeatedly press UP arrow to choose between weight or percentage tolerance method.
3. Press \( \text{ENTER} \) and enter value.
4. Press \( \text{ENTER} \) to save.

Note: OFF setting always advances after preset amount reached. Example: Ingredient = 1000lb/kg. If tolerance is set to 5%, Auto Advance will activate at 950lb/kg or 95% of preset weight.
9.3 Ingredient Tolerance

Enter value to accept ingredient for auto advance.

1. Enter 6004 and press .
2. Enter value using keypad to accept ingredient for auto advance.
3. Press .

9.4 Pen Tolerance and Method

Select weight or percentage method for pen tolerance.

1. Enter 6005 and press , screen will display . Press again to choose weight or percent.
2. Press , screen will display .
3. Enter weight or percentage desired.
4. Press to save.

9.5 Pen Tolerance

Enter value using keypad to accept pen as completed.

1. Enter 6006 and press , screen will display .
2. Enter weight or percentage desired.
3. Press to save.
9.6 Batch Advance (Ingredient /Pen)
Allows for hands free operation of programmed recipes. When auto advance feature activated, indicator automatically advances to next ingredient/pen, once tolerance, and delay time requirements are met.

9.7 Batch Advance Delay
Select seconds to delay before advancing to next feed-line

**Note:** Set seconds to “0” for manual advance.

1. Enter 6008 and press , screen will display \textit{BDelay}.
2. Select delay time using key pad.
3. Press to save.

9.8 Manual Pen Advance
Pens manually advance and ingredients automatically advance.

1. Enter 6009 and press .
2. Press again to enable or disable feature.
3. Press to save.
9.9 Resize Option
Resize weight or head count with feature enabled.

1. Enter 6014 and press , screen will display RESIZE. Press again to change to enable or disable feature.
2. Press to save.

9.10 Change Time

1. Enter 1202 and press , screen will display TIME.
2. Press and hold to clear time.
3. Enter new time using keypad. Format is HH/MM/SS
4. Press to save, then select AM/PM using .
5. Press to save.

9.11 Change Date

1. Enter 1204 and press , screen will display DATE.
2. DDMMYY is displayed. Press and hold .
3. Enter new date using keypad.
4. Press to save.
10.0 MENUS

10.1 Access Menu

1. Press \( \text{ until } \text{MENU} \) is displayed.

2. Press and hold \( \text{ for } 3 \text{ seconds.} \)

3. Press UP or DOWN arrow to select \( \text{MENU } 1-5 \text{ EXIT} \)

4. Press \( \text{ to choose } \text{MENU} \)

5. Press \( \text{ again to scroll features in } \text{MENU}. \)

6. Press UP, DOWN or \( \text{ to change features.} \)

7. Press \( \text{ to save selected features and go to the next feature.} \)

Note: See Section 16, for more Direct Access Numbers (D.A.N.).
11.0 MANUAL PROGRAMMING OF RECIPES

Entry method must be selected before entering recipes. Three different Entry Methods for entering ingredients:

**Amount per Animal (this is the default setting)**

Allows entry of ingredient amounts required for feeding one animal. Indicator calculates preset amounts required for each ingredient.

**Percent (%) Per Load**

Allows entry of ingredient amounts as a percent (%) of the total mix. To utilize the recipe the total amount of feed that is required is entered and the Indicator calculates the amount of each ingredient that must be added to the mixer. The total amount of all ingredients entered must equal 100% in this mode.

**Amount per Load**

Allows entry of the specific ingredient amounts required to create a load. With this method the total amount of recipe is fixed and cannot be adjusted

11.1 Change Entry Method

NOTE: Entry method must be selected before entering recipes. Existing recipes must be deleted, then entry method changed.

1. Enter 6101 and press .

2. Repeatedly press . Use UP and DOWN to select method.

   1 = Amount per Animal
   2 = Percent (%) per Load
   3 = Amount per Load

3. Press saves and sets entry method.
11.2 Ingredient Re-name

Ingredient names are listed in a standard table and can be changed using the following steps:

1. Repeatedly press \( \text{SELECT} \) until \text{RENAME} displays.
2. Press and hold \( \text{CLEAR} \) for 3 seconds. \text{PROGRAM} is displayed for a moment, then ingredients.
3. Then first ingredient is shown. Use UP or DOWN arrows to select ingredients to edit. (Press RIGHT arrow to display pens. Press LEFT arrow to display ingredients).
4. Press \( \text{EDIT} \) again to edit ingredient. Display briefly shows \text{EDIT} and flashing cursor is displayed.
5. Press and hold \( \text{CLEAR} \), erases ingredient.
6. Press “1” key once enters 1, twice enters A, three times for B, other numbers on keypads work the same. Pause for one second after entering a number/letter and they shift to the left.
7. Press \( \text{EDIT} \).
8. When done entering ingredients, press \( \text{EDIT} \) to exit.

11.3 Print Ingredients Names

1. Repeatedly press \( \text{SELECT} \) until \text{RENAME} is displayed.
2. Press and hold \( \text{CLEAR} \) for 3 seconds.
3. \text{PROGRAM} is displayed for a moment, then ingredients.
4. Press \( \text{EDIT} \), prints total accumulations for ingredient displayed.
5. Press \( \text{EDIT} \) again prints accumulations for all currently used recipes.
6. Press \( \text{EDIT} \) again, prints names for all ingredients. Ingredients not used by recipe and shows unused.
11.4 Pen Re-name

Pen names are listed in a standard table and can be changed using the following steps:

1. Repeatedly press until RENAME displays.
2. Press and hold for 3 seconds. PROGRAM is displayed for a moment. Press arrow to display pens).
3. The first pen is shown. Use or arrows to select pen to edit.
4. Press again to edit pen. Display briefly shows EDIT and flashing cursor is displayed.
5. Press and hold CLEAR, erases pen
6. Press “1” key once enters 1, twice enters A, three times for B, other numbers on keypads work the same. Pause for one second after entering a number/letter and they shift to the left.
7. Press .
8. When done entering pens, press to exit.

11.5 Print Pen Names

1. Repeatedly press until RENAME is displayed.
2. Press and hold for 3 seconds.
3. PROGRAM is displayed for a moment, then ingredients.
4. Press , prints total accumulations for pen displayed.
5. Press again prints accumulations for all currently used pens.
6. Press again, prints names for all pens. Pens not used show unused.
11.6 Enter New Recipe

1. Press and hold until indicator beeps and displays **PROGRAM** then displays either first recipe programmed or **REC_.**

2. This indicates recipe number can be entered using keypad. Example: **REC-01, REC-02, REC-03**

3. Press to add recipe.

4. Screen will display **INGRED** followed by the first ingredient of the ingredient list.

5. Press UP and DOWN arrows to scroll ingredients.

6. Press to select ingredient shown on display.

7. Enter amount of ingredient required, per chosen entry method (See page 30)

8. Press to store amount.

**NOTE:** In percent/load entry mode a 75% ingredient, for example, should be entered as 75.00 on display. 5.75% ingredient entered as 5.75.
9. Press RIGHT arrow to change to pens.
10. Press UP and DOWN arrow to scroll available pens.
11. Press to select pen on screen.
12. Enter amount for pen.
13. Press to store amount. Repeat steps 9-12 for each pen.
15. Indicator calculates and displays total amount of recipe. Repeat steps 1-14 until all recipes programmed.
16. Press to exit.
11.7 Edit Recipe

1. Press and hold until indicator beeps and displays PROGRAM.

2. Press or arrows until recipe number is displayed.

3. Press to edit this recipe.

4. First ingredient name displayed followed by AMOUNT.

5. Enter new amount using keypad.

6. Press, stores and advances to next ingredient.

Repeat steps 5 and 6 to edit amounts.

7. Press arrow to return to the previous ingredient.

8. Press and hold arrow to insert ingredient into recipe.

NOTE: The ingredient/group is inserted in front of the ingredient/group currently displayed. In a recipe without groups, first move to DONE to add groups.
11.8 Erase Ingredient/Pen When Editing Recipes

1. Press and hold \leftarrow arrow to erase the current ingredient or pen displayed on the screen.
2. Press \rightarrow to exit.

11.9 Erase a Recipe

1. Press and hold \leftarrow until indicator beeps and displays PROGRAM followed by first recipe number.
2. Press \uparrow or \downarrow arrow to select recipe or keypad in recipe number.
3. Press and hold \leftarrow arrow, message scrolls: PRESS PRINT TO PRINT RECIPE—PRESS MINUS TO ERASE RECIPE—PRESS NET/GROSS TO EXIT
4. Press \leftarrow arrow to erase displayed recipe.
5. Press \uparrow or \downarrow arrow to select new recipe or press \rightarrow GROSS to exit.

NOTE: Ingredients / Pens can now be added and removed when editing a programmed recipe.
11.10 Review a Recipe

1. Press \( \text{REC} \) to display first recipe.
2. Press \( \text{\textup{\textgreater}} \) and \( \text{\textdown{\textless}} \) arrows to select recipe.
3. Press \( \text{\textgreater} \) arrow to display each feed-line, weight or percent and total for recipe. (Will Auto Advance through ingredients.)

11.11 Printing Single Recipe

Note: Optional serial port must be installed for printing.

1. Press \( \text{\textup{\textgreater}} \) displays first recipe.
2. Press \( \text{\textup{\textgreater}} \) or \( \text{\textdown{\textless}} \) arrows to select recipe.
3. Press \( \text{\textup{\textgreater}} \) prints recipe.
4. Press \( \text{\textup{\textgreater}} \) to exit.

11.12 Printing All Recipes

1. Press \( \text{\textup{\textgreater}} \) displays first recipe.
2. Press \( \text{\textup{\textgreater}} \) twice to print all ingredients/pens used in recipes.
3. Press \( \text{\textup{\textgreater}} \) three times to print all ingredients/pens saved on the indicator.
4. Press \( \text{\textup{\textgreater}} \) to exit.
12.0 UTILIZING RECIPES

12.1 Using Recipes Setup by: Amount per Animal

1. Press \( \text{REC} \) to display recipe.

2. Press \( \text{REC} \) or \( \text{REC} \) arrows to select recipe.

3. Press \( \text{REC} \).

4. Scale indicator displays ANIMAL RESIZE for each pen. Then a flashing number is displayed. Enter amount for each pen. Example: 200

5. Press \( \text{REC} \). Note: If using percent/load, change number to weight amount for pen.

6. After resizing all pens, indicator displays ingredient to load and how much to load. As ingredient is loaded, indicator counts down to zero.

7. Press \( \text{REC} \) to advance to next ingredient.

8. After last ingredient loaded, scale indicator displays START DELIVERIES - 2000 LOADED Example 2000

9. Scale indicator displays pen to unload and how much to unload. As pen is unloaded, indicator counts down to zero.

10. Press \( \text{REC} \) to advance to next pen.

11. After last pen unloaded, scale indicator displays RECIPE COMPLETE TOTAL UNLOADED = 2000
13.0 OTHER FUNCTIONS

13.1 Hold

Hold mode prevents displayed weight from changing while moving equipment around.

1. Press  
2. Press again, to return indicator gross weight
3. If weight is added while in hold mode press  to cancel hold.

Note: This feature is disabled on all legal for trade systems.

13.2 Using LCD Dimmer

1. Repeatedly press  until DIMMER is displayed.
2. Press . Display back-light will dim.
3. Repeat 1-2 to change display lighting back.
14.0 SETUP/CALIBRATION

14.1 Setup Number

1. Enter 8711, press .

2. Scale indicator shows SETUP briefly, then shows a six digit number on display. Example: 146040. This is the current setup number. A new setup number may be entered if needed using the key pad.

3. Press .

14.2 Calibration Number

1. Enter 8712, press .

2. Scale indicator shows CAL briefly, then a five-digit number is shown on display. Example: 32640. This is the current CAL number. A new CAL number may be entered if needed using the key pad.

3. Press .
15.0 INDICATOR MOUNTING

For most applications the equipment manufacturer provides the necessary mounting system and hardware, and mounts the Indicator for the End User.

Digi-Star provides a number of mounting options that allow the end user to customize the location and placement of the Indicator.

In all cases the Digi-Star Indicator must be securely mounted to the equipment. Loose, or unsupported, Indicators can be damaged.
16.0 DIRECT ACCESS NUMBERS

16.1 Options Changed by User

**NOTE:** Direct access numbers affect how the indicator works. Changing these numbers could stop the indicator from working as planned.

To display menus 1, 2, 3, 4, 5, & 6:

1. Repeatedly press to until MENU is displayed.
2. Press and hold .
3. Repeatedly press to select Menus1, 2, 3, 4, 5, 6 or Exit.
4. Press displays setting name and allows value changes.
5. Press either or to scroll through options for each setting/display.
6. Press to save setting and next option for menu displays.

<table>
<thead>
<tr>
<th>SETTING</th>
<th>D.A.N.</th>
<th>OPTIONS [displayed]</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>[display]</td>
<td>NO.</td>
<td>RED=DEFAULT</td>
<td></td>
</tr>
</tbody>
</table>

**MENU 1 – GENERAL SETTINGS**

<table>
<thead>
<tr>
<th>LANGUAGE (LANGAG)</th>
<th>1001</th>
<th>English Ducit, French, German, Italian, Portuguese, Spanish, Danish, Hungarian, Spanish, Polish</th>
<th>Select language to be displayed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DISPLAY RATE (DRATE)</td>
<td>1002</td>
<td>1,2,3,4,6,7,8,9,10</td>
<td>Update display times per second.</td>
</tr>
<tr>
<td>SCALE ID SETUP (SCALID)</td>
<td>1003</td>
<td>NEW EZ</td>
<td>Identity of scale location (truck id or Mixer number).</td>
</tr>
<tr>
<td>ZERO TRACK (ZTRACK)</td>
<td>1004</td>
<td>ON/OFF</td>
<td>If ON -zero track adjust balance for buildup of snow &amp; mud.</td>
</tr>
<tr>
<td>SETTING</td>
<td>D.A.N. NO.</td>
<td>OPTIONS [displayed]</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>----------------------</td>
<td>------------</td>
<td>---------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>WEIGH METHOD (W MTHD)</td>
<td>1005</td>
<td>1=General 2=Fast 3=Slow</td>
<td>Select weigh method. The speed the weight changes as shown on the LCD.</td>
</tr>
<tr>
<td>1 PRESS ZERO (1 ZERO)</td>
<td>1006</td>
<td>ON/OFF</td>
<td>If ON -press and hold Zero key to Zero/Balance scale. Indicator turns off after selected minutes of stable weight.</td>
</tr>
<tr>
<td>AUTO OFF (AUTOFF)</td>
<td>1007</td>
<td>OFF, 15, 30, 45, 60</td>
<td></td>
</tr>
<tr>
<td>DISPLAY UNIT (LB-KG)</td>
<td>1008</td>
<td>LB/KG</td>
<td>Display pounds – LB or Kilograms - KG</td>
</tr>
<tr>
<td>SCROLL DELAY (SCROLL)</td>
<td>1101</td>
<td>0,1,2,3,4, 5, 6, 7, 8, 9</td>
<td>Scroll rate for cold temperatures 0=normal 9=slowest Saves tare weight to non-volatile memory.</td>
</tr>
<tr>
<td>SAVE TARE (SAVTAR)</td>
<td>1102</td>
<td>ON/OFF</td>
<td></td>
</tr>
<tr>
<td>PRELOAD TARE (PRETAR)</td>
<td>1103</td>
<td>ON/OFF</td>
<td>Tare weights can be entered using the numeric keypad.</td>
</tr>
<tr>
<td>TIME FORMAT (TIME F)</td>
<td>1201</td>
<td>24 HR AM/PM</td>
<td>Select time format -AM/PM or 24 hours</td>
</tr>
<tr>
<td>TIME (TIME)</td>
<td>1202</td>
<td>HH:MM:SS, AM/PM</td>
<td>Enter changes HH:MM:SS (use numeric keypad) use function key to change between HH:MM:SS then choose AM/PM.</td>
</tr>
<tr>
<td>DATE FORMAT (DATE F)</td>
<td>1203</td>
<td>1-mm-dd 2-mm/dd/yy 3-mm/dd/yyyy 4-dd-mm 5-dd/mm/yy 6-dd/mm/yyyy 7-ddmmyy 8-ddmmyyyy</td>
<td>Select date format</td>
</tr>
<tr>
<td>DATE (DATE)</td>
<td>1204</td>
<td>Enter ddmmyy</td>
<td>Select key changes date or numerical keys -function key chooses DD/MM/YY.</td>
</tr>
<tr>
<td>DATE CHECK (DT CHK)</td>
<td>1205</td>
<td>ON/OFF</td>
<td>Verifies the real time clock has a valid date at power up.</td>
</tr>
<tr>
<td>REMOTE INPUT 1 (RMINP1)</td>
<td>1401</td>
<td>MIXCTR, INGRED,OFF, PRESET, SWITCH, TARE, PRINT, HOLD, NETGRS, M+, ZERO</td>
<td>Sets function of remote input line on the power cord.</td>
</tr>
</tbody>
</table>
### Direct Access Numbers

<table>
<thead>
<tr>
<th>SETTING [display]</th>
<th>D.A.N. NO.</th>
<th>OPTIONS [displayed] RED=DEFAULT</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>REMOTE SWITCH MESSAGE (RI IN5G)</td>
<td>1402</td>
<td></td>
<td>Message that is displayed for remote input switch condition.</td>
</tr>
<tr>
<td>REMOTE 1 SWITCH STATE (R1STAT)</td>
<td>1403</td>
<td>OPEN/CLOSED</td>
<td>Set remote input line state that displays message and/or illuminates alarm lamp. <strong>D.A.N. 1401 set to “switch”</strong>.</td>
</tr>
<tr>
<td>REMOTE 1 SWITCH MESSAGE TIME (R1TIME)</td>
<td>1404</td>
<td>1...2-9</td>
<td>Set how often the remote switch message is displayed. Once every 1-9 seconds. <strong>D.A.N. 1401 set to “switch”</strong>.</td>
</tr>
<tr>
<td>REMOTE INPUT 2 (RMINP2)</td>
<td>1411</td>
<td>TARE, PRINT, HOLD, NETGRS, M+, ZERO, TR HLD, OFF, PRESET, SWITCH OPEN, --,+,*,0, 1,2,3, 4,5,6,7,8,9,A,B,C, D,E,F,G,H,I,J,K,L, M,N,O,P,Q,R,S,T,U, -V,-W,-X,-Y,-Z</td>
<td>Sets function of remote input line on the remote port.</td>
</tr>
<tr>
<td>REMOTE 2 SWITCH MESSAGE (RI2IN5G)</td>
<td>1412</td>
<td></td>
<td>Message that is displayed for remote input condition. <strong>D.A.N. 1411 set to “switch”</strong>.</td>
</tr>
<tr>
<td>REMOTE 2 SWITCH STATE (R2STAT)</td>
<td>1413</td>
<td>OPEN/CLOSED</td>
<td>Set remote input line state that displays message and/or illuminates alarm lamp. <strong>D.A.N. 1411 set to “switch”</strong>. Set how often the remote switch message is displayed. Once every 1-9 seconds. <strong>D.A.N. 1411 set to “switch”</strong>.</td>
</tr>
<tr>
<td>REMOTE 2 SWITCH MESSAGE TIME (R2TIME)</td>
<td>1414</td>
<td>0...2-9</td>
<td></td>
</tr>
<tr>
<td>PROGRAM ID (PRG ID)</td>
<td>1998</td>
<td>Example: 15FE16</td>
<td>Displays current software version</td>
</tr>
</tbody>
</table>

**MENU 2 – COMMUNICATIONS FEATURES**

<table>
<thead>
<tr>
<th>SETTING (REMOTE)</th>
<th>D.A.N. NO.</th>
<th>OPTIONS [displayed]</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>REMOTE (REMOTE)</td>
<td>2001</td>
<td>ON/OFF</td>
<td>If ON indicator communicates with Cab Control Display</td>
</tr>
<tr>
<td>SCALE NUMBER (SCL NO)</td>
<td>2002</td>
<td>1,2,3,4,5,6,7,8,9,10,11,12, 13,14,15,16,17,18,19,20, 21,22,23,24</td>
<td>Select scale number for cab control communication</td>
</tr>
<tr>
<td>SETTING [display]</td>
<td>D.A.N. NO.</td>
<td>OPTIONS [displayed] RED=DEFAULT</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>---------------------------</td>
<td>------------</td>
<td>-------------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>EXTERNAL RADIO (EXTRAD)</td>
<td>2003</td>
<td>ON/OFF</td>
<td>Enables external radio to be connected to the J905 port.</td>
</tr>
<tr>
<td>DDL ATTACHED (DDL)</td>
<td>2004</td>
<td>YES/NO</td>
<td>Enables connection of a DDL (Data Down-Loader)</td>
</tr>
<tr>
<td>SCOREBOARD MODE (SCOREM)</td>
<td>2101</td>
<td>0,1,2,3,4,5,6,7,8,11,12,15,27,37,38,39</td>
<td>Select scoreboard output</td>
</tr>
<tr>
<td>ZERO OUTPUT (ZEROUT)</td>
<td>2102</td>
<td>Weight displayed= Then press ZERO key and hold for three seconds.</td>
<td>Allows zero/balance for SCOREM #11 serial gross weight.</td>
</tr>
<tr>
<td>FRONT PANEL ZEROOUT (ZEROFP)</td>
<td>2103</td>
<td>OFF/ON</td>
<td>Allows use of the zero key to zero/balance the serial gross weight.</td>
</tr>
<tr>
<td>OPERATION STATUS (OPSTAT)</td>
<td>2111</td>
<td>0, 2</td>
<td>Select operating data to be sent to a Remote Terminal</td>
</tr>
<tr>
<td>COM 1 BAUD RATE (C1 BD)</td>
<td>2201</td>
<td>1200,2400, 4800, <strong>9600</strong>, 14400, 19200, 38400, 57600, 115200</td>
<td>Sets baud rate for com port #1</td>
</tr>
<tr>
<td>COM 1 PARITY (C1 PR)</td>
<td>2202</td>
<td>NONE, ODD, EVEN</td>
<td>Sets parity for com port #1</td>
</tr>
<tr>
<td>COM 1 DATA BITS (C1 DB)</td>
<td>2203</td>
<td>7, 8</td>
<td>Sets data bits for com port #1</td>
</tr>
<tr>
<td>COM 1 DELAY (C1 DLY)</td>
<td>2204</td>
<td>0, .10, .25, .50, .75, 1-5</td>
<td>Selects seconds to delay before advancing to next line.</td>
</tr>
<tr>
<td>COM 2 BAUD RATE (C2 BD)</td>
<td>2211</td>
<td>1200,2400, 4800, <strong>9600</strong>, 14400, 19200, 38400, 57600, 115200</td>
<td>Sets baud rate for com port #2</td>
</tr>
<tr>
<td>COM 2 PARITY (C2 PR)</td>
<td>2212</td>
<td>NONE, ODD, EVEN</td>
<td>Sets parity for com port #2</td>
</tr>
<tr>
<td>COM 2 DATA BITS (C2 DB)</td>
<td>2213</td>
<td>7, 8</td>
<td>Sets data bits for com port #2</td>
</tr>
<tr>
<td>COM 2 DELAY (C2 DLY)</td>
<td>2214</td>
<td>0, .10, .25, .50, .75, 1-5</td>
<td>Selects seconds to delay before advancing to next line.</td>
</tr>
<tr>
<td>TARE AUTO PRINT (TAREAP)</td>
<td>2301</td>
<td>ON/OFF</td>
<td>If ON -tare auto-prints displayed weight.</td>
</tr>
<tr>
<td>ONE LINE PRINT (1L PRT)</td>
<td>2302</td>
<td>ON/OFF</td>
<td>If ON -indicator data prints on one line.</td>
</tr>
<tr>
<td>SETTING [display]</td>
<td>D.A.N. NO.</td>
<td>OPTIONS [displayed] RED=DEFAULT</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>------------------</td>
<td>-----------</td>
<td>---------------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>AUTO PRINT (APRINT)</td>
<td>2303</td>
<td>ON/OFF AUTO, WTONLY, DOWNLD, DT+TM, ID+TM, IDWT TM, BATCH1, PRTAC1, PRTAC2, PRTAC3, PRWTRC, WTRCTM,3200-A, 3200-B, SCLABC, 32-TMR, FDINFO, FEED-1</td>
<td>If ON -pressing keys auto-prints weight values. Select alternate &amp; comma (CSV) formats.</td>
</tr>
<tr>
<td>PRINT FORMAT (PRTFMT)</td>
<td>2304</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PRINT ACCUMULATION (PRTACC)</td>
<td>2305</td>
<td>0</td>
<td>Shows a running total of weights printed.</td>
</tr>
<tr>
<td>REMOTE DISPLAY (RMDISP)</td>
<td>2401</td>
<td>EZ2, EZ3MUX, COG, NONE</td>
<td>Select type of remote display</td>
</tr>
<tr>
<td>REMOTE TERMINAL (RMTERM)</td>
<td>2402</td>
<td>ON/OFF</td>
<td>Sends display data to serial remote terminal interface</td>
</tr>
<tr>
<td>BAR GRAPH MODE (BARGRP)</td>
<td>2411</td>
<td>OFF, RIGHT, LEFT, MIDOUT, MID IN</td>
<td>Selects output for a bar graph display when used with an RD4000 Remote Display Enables graph to be used with weight when used with a RD4000 Remote Display. Enter the full scale gross weight for the bar graph display.</td>
</tr>
<tr>
<td>WEIGHT GRAPH (WTGRPH)</td>
<td>2412</td>
<td>ON/OFF</td>
<td></td>
</tr>
<tr>
<td>BAR WEIGHT (BAR WT)</td>
<td>2413</td>
<td>12000</td>
<td>Enables graph to be used with presets when used with an RD4000 Remote Display. Enables graph to be used with timers when used with an RD4000 Remote Display.</td>
</tr>
<tr>
<td>PRESET GRAPH (PRGRPH)</td>
<td>2414</td>
<td>ON/OFF</td>
<td></td>
</tr>
<tr>
<td>TIMER GRAPH (TMGRPH)</td>
<td>2415</td>
<td>ON/OFF</td>
<td></td>
</tr>
<tr>
<td>MENU 3 - MOTION &amp; WEIGHT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DISPLAY COUNT (COUNT)</td>
<td>3001</td>
<td>.01, .02, .05, ,.1,.2,.5,1,2,5,10,20, 50,100</td>
<td>Select display count size of weigh values. Enter MAXIMUM weight measurable on scale.</td>
</tr>
<tr>
<td>CAPACITY (CRP)</td>
<td>3002</td>
<td>40,000</td>
<td></td>
</tr>
<tr>
<td>WM1 ADJUST 1 (WMA1-1)</td>
<td>3003</td>
<td>10</td>
<td>Increase this number to smoothing weighing</td>
</tr>
<tr>
<td>WM1 ADJUST 2 (WMA1-2)</td>
<td>3004</td>
<td>4</td>
<td>0-off. Use value less than WMA1-1 for quick response weight.</td>
</tr>
<tr>
<td>SETTING [display]</td>
<td>D.A.N. NO.</td>
<td>OPTIONS [displayed]</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>------------------</td>
<td>------------</td>
<td>---------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>WM1 ADJUST 3 (\text{WM1-3})</td>
<td>3005</td>
<td>4000</td>
<td>Enter the weight to active quick response weight Default-10% of scale capacity</td>
</tr>
<tr>
<td>WM2 ADJUST 1 (\text{WM2-1})</td>
<td>3006</td>
<td>30, value must be less than 100 and more than 2.</td>
<td>Increase this number to smoothing weighing 10=off. Use value less than WMA2-1 for quick response weight.</td>
</tr>
<tr>
<td>WM2 ADJUST 2 (\text{WM2-2})</td>
<td>3007</td>
<td>10, value must be less than 100 and more than 0.</td>
<td>Enter the weight to active quick response weight Default-10% of scale capacity ON = Motion arrow flashes with unstable weight. Prevents: Print, Zero, Tare, Advance</td>
</tr>
<tr>
<td>WM2 ADJUST 3 (\text{WM2-3})</td>
<td>3008</td>
<td>4000</td>
<td>Enter the weight to active quick response weight ON = Motion arrow flashes with unstable weight. Prevents: Print, Zero, Tare, Advance</td>
</tr>
<tr>
<td>MOTION (\text{MOTION})</td>
<td>3101</td>
<td>ON/OFF</td>
<td>Enter weight used to detect motion. 0=Standard detection</td>
</tr>
<tr>
<td>MOTION WEIGHT (\text{MOT WT})</td>
<td>3102</td>
<td>0</td>
<td>Enter weight used to detect motion. 0=Standard detection</td>
</tr>
</tbody>
</table>

**MENU 4 - PRESET, ALARM, and TIMER**

| PRE ALARM METHOD \(\text{P MTHD}\) | 4001 | WEIGHT, PERCENT | Select weight or percentage method for pre-alarm |
| PRE-ALARM \(\text{P-ALM}\) | 4002 | 100 | Enter a value to activate an early warning that indicator is reaching the preset. |
| ALARM OUTPUT \(\text{AL OUT}\) | 4003 | OFF, PRESET, TR | Select preset or TR to control relay, horn & lamp. |
| BUZZER \(\text{BUZZER}\) | 4004 | OFF, ON, 1-10 | ALARM BUZZER -allows user to turn off alarm horn when loading/unloading |
| RELAY \(\text{RELAY}\) | 4005 | OFF, PRESET, SETPNT | Selects the behavior of the +12VDC alarm output |
| PRESET DELAY \(\text{PRTDLY}\) | 4006 | 10 | Set time to automatically advance/print entered preset |
| GROSS SET PNT OUTPUT \(\text{SETOUT}\) | 4101 | OVER/UNDER | Select when the +12VDC Alarm Output becomes active. |
| GROSS SET POINT CHNG \(\text{SETCHG}\) | 4102 | 500 | Set required weight change to turn off +12VDC Alarm Output. |
### Direct Access Numbers

<table>
<thead>
<tr>
<th>SETTING</th>
<th>D.A.N. NO.</th>
<th>OPTIONS [displayed]</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>GROSS SET POINT DELAY (<em>SETDEL</em>)</td>
<td>4103</td>
<td>0</td>
<td>Set time delay before the +12VDC Alarm Output can Turn On/Off.</td>
</tr>
<tr>
<td>GROSS SET POINT (<em>SETPNT</em>)</td>
<td>4104</td>
<td>5000</td>
<td>Set a gross weight in long form that will activate +12VDC Alarm Output on Power cord.</td>
</tr>
<tr>
<td>SET POINT COUNT (<em>SETCTR</em>)</td>
<td>4105</td>
<td>0</td>
<td>Counts how many times set point is activated.</td>
</tr>
<tr>
<td>SET POINT WEIGHT SOURCE (<em>STWTSC</em>)</td>
<td>4106</td>
<td>SERIAL/NORMAL</td>
<td>Sets weight source for use with set point feature.</td>
</tr>
<tr>
<td>TOLERANCE METHOD (<em>TMTHD</em>)</td>
<td>4201</td>
<td>WEIGHT, PERCENT</td>
<td>Select weight or percentage method for preset tolerance.</td>
</tr>
<tr>
<td>TOLERANCE (<em>TOLER</em>)</td>
<td>4202</td>
<td>0</td>
<td>Select tolerance weight percentage to accept preset.</td>
</tr>
<tr>
<td>TOLERANCE OVERLOCK (<em>OVERLK</em>)</td>
<td>4203</td>
<td>OFF/ON</td>
<td>Prevents auto-advancing if preset exceeds tolerance.</td>
</tr>
<tr>
<td>TIMER, COUNTER (<em>TMRCTR</em>)</td>
<td>4301</td>
<td>TIMER, COUNTER</td>
<td>Select time or mixer revolutions to decrement mix timer/counter.</td>
</tr>
<tr>
<td>DRIVE RATIO (<em>DRATIO</em>)</td>
<td>4302</td>
<td>1.00</td>
<td>Enter the number of input pulses that equal 1 mixer revolution. REVCTR needs to be enabled in the setup options. <strong>D.A.N. 4301 set to COUNTER.</strong></td>
</tr>
</tbody>
</table>

### MENU 5 - COM PORT SETUP

<p>| REMOTE DISPLAY PORT (<em>RNDPRT</em>) | 5001      | OFF, COM1, <strong>COM2</strong>, COM3    | Sets serial remote display output                                          |
| RADIO PORT (<em>RADPRT</em>)          | 5002      | OFF, COM1, COM2, <strong>COM3</strong>    | Sets internal radio port                                                   |
| EXTERNAL RADIO PORT (<em>EXRPT</em>)  | 5003      | OFF, COM1, <strong>COM2</strong>, COM3    | Sets external radio port                                                   |</p>
<table>
<thead>
<tr>
<th>SETTING</th>
<th>D.A.N. NO.</th>
<th>OPTIONS [displayed]</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRINTER PORT (PRPORT)</td>
<td>5005</td>
<td>OFF, COM1, COM2, COM3</td>
<td>Sets printer port</td>
</tr>
<tr>
<td>SCOREBOARD PORT (SCPORT)</td>
<td>5006</td>
<td>OFF, COM1, COM2, COM3</td>
<td>Sets scoreboard port</td>
</tr>
<tr>
<td>OPSTAT PORT (OPSTAT)</td>
<td>5007</td>
<td>OFF, COM1, COM2, COM3</td>
<td>Sets op-stat port</td>
</tr>
<tr>
<td>DDL PORT (DDLPRT)</td>
<td>5009</td>
<td>OFF, COM1, COM2, COM3</td>
<td>Sets DDL port</td>
</tr>
<tr>
<td>20MA MIRROR PORT (2OMARR)</td>
<td>5011</td>
<td>OFF, COM1, COM2, COM3</td>
<td>Sets port for 20MA signal to mirror</td>
</tr>
<tr>
<td>RECIPE PORT (RECPRT)</td>
<td>5012</td>
<td>OFF, COM1, COM2, COM3</td>
<td>Sets recipe output port</td>
</tr>
<tr>
<td>DEBUG PORT (DBGPRT)</td>
<td>5999</td>
<td>OFF, COM1, COM2, COM3</td>
<td>Sets debugger port</td>
</tr>
</tbody>
</table>

**MENU 6.0 - APPLICATION SPECIFIC**

<table>
<thead>
<tr>
<th>SETTING</th>
<th>D.A.N. NO.</th>
<th>OPTIONS [displayed]</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>BATCH PRE-ALARM METHOD (BPMTHD)</td>
<td>6001</td>
<td>WEIGHT PERCENT</td>
<td>Select weight or percentage method for batch pre-alarm</td>
</tr>
<tr>
<td>BATCH PRE-ALARM (BP-ALM)</td>
<td>6002</td>
<td>100</td>
<td>Enter value to activate an early warning that scale is reaching preset.</td>
</tr>
<tr>
<td>INGRED. TOLENCE METHOD (ITMTHD)</td>
<td>6003</td>
<td>WEIGHT PERCENT</td>
<td>Select weight or percentage method for ingredient tolerance.</td>
</tr>
<tr>
<td>INGREDIENT TOLERANCE (ITOLER)</td>
<td>6004</td>
<td>0</td>
<td>Enter value to accept ingredient for auto advance.</td>
</tr>
<tr>
<td>PEN TOLERANCE METHOD (PTMTHD)</td>
<td>6005</td>
<td>WEIGHT PERCENT</td>
<td>Select weight or percentage method for pen tolerance.</td>
</tr>
<tr>
<td>SETTING</td>
<td>D.A.N. NO.</td>
<td>OPTIONS [displayed]</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>-------------------------</td>
<td>------------</td>
<td>---------------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>PEN TOLERANCE (PTOLER)</td>
<td>6006</td>
<td>0</td>
<td>Enter value to accept pen as completed.</td>
</tr>
<tr>
<td>BATCH TOLERANCE</td>
<td>6007</td>
<td>OFF, ON</td>
<td>If ON – prevents auto-advancing if preset exceeds tolerance</td>
</tr>
<tr>
<td>OVERLOCK (BOVRLK)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BATCH ADVANCE DELAY</td>
<td>6008</td>
<td>0, MANUAL</td>
<td>Select seconds to delay before advancing to next feed-line.</td>
</tr>
<tr>
<td>(BDELAY)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MANUAL PEN ADVANCE</td>
<td>6009</td>
<td>OFF, ON</td>
<td>If ON - Overrides Automatic advance for Pens.</td>
</tr>
<tr>
<td>(+MMPEN)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>INGREDIENT STARTED WEIGHT (ISTART)</td>
<td>6011</td>
<td>40 lbs.</td>
<td>This weight threshold determines if the ingredient has been started.</td>
</tr>
<tr>
<td>PEN START WEIGHT (PSTART)</td>
<td>6012</td>
<td>40 lbs.</td>
<td>This weight threshold determines if the pen has been started.</td>
</tr>
<tr>
<td>PEN WEIGHT (PEN WT)</td>
<td>6013</td>
<td>LOAD, GROSS, NET</td>
<td>Select method for displaying pen weight - Net, Load, or Gross.</td>
</tr>
<tr>
<td>RESIZE RECIPE (RESIZE)</td>
<td>6014</td>
<td>ON, OFF</td>
<td>If ON - operator can change recipe size.</td>
</tr>
</tbody>
</table>

**MENU 6.0.5-COMMON BATCHING**

<table>
<thead>
<tr>
<th>RECIPE PRINT FORMAT (RECFMT)</th>
<th>6051</th>
<th>SYSTEM, AUTO, 32-TMR, FDIINFO, FEED-1, SERMED</th>
</tr>
</thead>
<tbody>
<tr>
<td>RECIPE TOTAL (RECTOT)</td>
<td>6052</td>
<td>(SCALE)PROG, LAST, PRGCOR, LSTCOR—ON, OFF(PC)</td>
</tr>
</tbody>
</table>

Defines how scale will print when in weighing mode or a batch.

Selects Total amount to be displayed when starting recipe. **D.A.N. 6054 select PC or SCALE**
<table>
<thead>
<tr>
<th>SETTING</th>
<th>D.A.N. NO.</th>
<th>OPTIONS [displayed]</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>INGREDIENT RE-SIZING (INGSIZ)</td>
<td>6053</td>
<td>(PC) OFF, 1 ING, 1+2ING, ... (SCALE) OFF, 1ING, 1ING+P</td>
<td>Selects Automatic Ingredient Re-Sizing mode. <strong>D.A.N. 6054 select PC or SCALE.</strong></td>
</tr>
</tbody>
</table>

### MENU 6.1- BATCHING

| ENTRY METHOD (EMTHD)          | 6101       | 1-amount/animal, 2-percent/load, 3-amount/load | Select batching method. **D.A.N. 6054 must be set to "SCALE".** If ON - displays scoop percentage to load. **D.A.N. 6054 must be set to "SCALE".** |
| DISPLAY SCOOP % (Scoop %)     | 6102       | OFF, ON                                      | If ON - displays ingredient names while batching. **D.A.N. 6054 must be set to "SCALE".** |
| INGREDIENT NAMES (INGRNM)     | 6103       | ON, OFF                                      | If ON – load/unload weights are accumulated while batching. **D.A.N. 6054 must be set to "SCALE".** |
| ACCUMULATION (ACCUM)          | 6104       | ON, OFF                                      |                                                                             |

### MENU 6.2- 3610/4610 BATCHING

<p>| FORCE USER ID (USERID)        | 6201       | OFF, ON                                      | If ON - operator MUST enter User ID to use scale.                          |
| RECIPE KEYS (RECKEY)          | 6202       | OFF, ON                                      | If ON - disables certain keys when Loading / Unloading Recipe.             |
| BATCH NUMBER (BATNUM)         | 6203       | PCCTRL, EZCTRL                               | Select either PC or EZ to control the batch number.                        |</p>
<table>
<thead>
<tr>
<th>SETTING</th>
<th>D.A.N. NO.</th>
<th>OPTIONS [displayed]</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIGNON SETTING (SIGNON)</td>
<td>8001</td>
<td>OFF,ON</td>
<td>Enables continuous display of sign-on message</td>
</tr>
<tr>
<td>SIGNON MESSAGE (SIGMSG)</td>
<td>8002</td>
<td>SIGMSG 1,2,3</td>
<td>Enables editing of the sign-on message</td>
</tr>
<tr>
<td>MAINTENANCE MESSAGE (MANTNG)</td>
<td>8011</td>
<td>MANTMG 1, 2, 3, 4, 5, 6, 7, 8, 9, 10</td>
<td>Enables editing of the maintenance message</td>
</tr>
<tr>
<td>MAINTENANCE MESS. TIME (MANTTM)</td>
<td>8012</td>
<td>200, Time is entered using key pad.</td>
<td>Time for maintenance message to be triggered.</td>
</tr>
<tr>
<td>DEAD WEIGHT CAL (WT CAL)</td>
<td>8121</td>
<td>Follow instructions shown on LCD</td>
<td>Calibration method using weights</td>
</tr>
<tr>
<td>TEMPERATURE CALIBRATION (T CALB)</td>
<td>8123</td>
<td>OFF/ON</td>
<td>On=Scale adjusts for temperature changes</td>
</tr>
<tr>
<td>INDICATOR SETUP INFO (DS&gt;SER)</td>
<td>8299</td>
<td>DS&gt;SER</td>
<td>Downloads all setup information to the serial port</td>
</tr>
<tr>
<td>KEYTEST</td>
<td>8888</td>
<td></td>
<td>Enables front panel key test</td>
</tr>
<tr>
<td>SETUP NUMBER (SETUP)</td>
<td>8711</td>
<td>146040</td>
<td>Quick entry method selects weigh method 1-4 lbs, 5-8 kg, gain 1-9, display counts 1-9 and capacity *1000</td>
</tr>
<tr>
<td>Calibration Number (CRL)</td>
<td>8712</td>
<td>32640</td>
<td>Weight displayed at 0.4mV/V</td>
</tr>
</tbody>
</table>
17.0 CONNECTIONS

17.1 Indicator Connections

For accurate and reliable operation care should be taken when routing and connecting cables to the Digi-Star Indicator.

- Cables should be secured and protected from damage and abrasion.
- Long cables should not “hang” by the cable connector at the Indicator but should be secured to a structure close to the Indicator leaving a short “tail” to connect to the Indicator.

Special Considerations for Power (+) and Ground (-):

- The Digi-Star Indicator is designed to operate at a continuous voltage ranging from 10.5 to 16.0 volts.
- Intermittent voltage drops to as low as 9.0 volts, such as when starting an engine, will be tolerated. Continuous low voltage will result in a Low Voltage warning on the display or the Indicator will power off.
- Voltage spike above 16 volts will damage the Indicator. Never weld or charge or jump start the battery on the equipment that the Indicator is mounted to without disconnecting the Indicator power cord. Never operate an Indicator on equipment with an engine charging circuit when the battery has been removed.

Digi-Star recommends that the red power (+) and black ground (-) are connected as follows:

- Power (+) can be either switched or keyed ON & OFF, or un-switched and always on.

- Power (+) and Ground (-) should come from a dedicated auxiliary power source when provided. When auxiliary power sources are not provided power should come from the main power distribution system.

  - Fuse or circuit protection of at least 5 amps, but no more than 10 amps, should be provided. Although the Indicator is protected internally by an internal fuse a fuse or circuit protection is required to protect the power cable and equipment.
  - Ground (-) connection should be made to a main ground (the battery ground (-) is often connected to this location). Do not use the chassis or frame of the equipment as a ground.
Indicator Connection Diagram

<table>
<thead>
<tr>
<th>Pin</th>
<th>Wire Color</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Red</td>
<td>+ Terminal 12VDC</td>
</tr>
<tr>
<td>2</td>
<td>Black</td>
<td>- Terminal Ground</td>
</tr>
<tr>
<td>3</td>
<td>Orange</td>
<td>Alarm Out</td>
</tr>
<tr>
<td>4</td>
<td>Blue</td>
<td>Remote Input</td>
</tr>
</tbody>
</table>

Optional Printer

Optional Remote Display

J-Box
(See J-Box Connections)
17.2 Connecting Load Cells to Junction Box

Connect load cell wires to terminal blocks.

<table>
<thead>
<tr>
<th>Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>White Signal +</td>
</tr>
<tr>
<td>2</td>
<td>Green Signal -</td>
</tr>
<tr>
<td>3</td>
<td>Red Excitation +</td>
</tr>
<tr>
<td>4</td>
<td>Black Excitation -</td>
</tr>
<tr>
<td>5</td>
<td>Shield Shield</td>
</tr>
</tbody>
</table>

J-Box Illustrated for 4 Load Cells to be installed.

17.3 Load Cell Direction

BENDING DIRECTION
DIRECTION DE FLEXION
BIEGERICHTUNG

Observe direction of arrow when installing load cell.
18.0 OPTIONAL EQUIPMENT

18.1 Cab Controls (Wireless)

Features
- Wireless remote with full control of scale
- Mount in loader for easier viewing
- Improves loading accuracy
- Cab control app. available

Specifications
- 2.4GHz or 800 MHz options
- Multi-channel to communicate with multiple mixers

18.2 Data Transfer Options

Kit Data Down Loader
Allows transfer of data from indicator to PC.
(Optional communication port must already be installed in indicator)

18.3 Transmitter/Receiver

Transmitter (shown) with factory installed receiver in indicator.
Use to zero indicator from a remote location.
Operating range about 90 feet.
18.4 Remote Indicators

Wired Remote Displays
RD440 small remote display
RD2500V backlit remote display with 1.7" high numbers
RD2500V backlit remote display w/transmitter and installed receiver
RD4000 remote display

18.5 Rotation Counter Sensor (Kit p/n: 410002)

Use with EZ3410 indicator. Sensor allows operator to program indicator to count auger or PTO rotations for accurate mixing of feed. Also used for keeping maintenance log for equipment. Example; At 50 hours of operation time PTO shaft is scheduled for greasing or engine oil is scheduled for changing. For proper equipment maintenance needed, refer to equipment operator manual.

18.6 Printer Option

Use with EZ3410 indicator, optional communication port must be installed. When a Printer is connected to serial port of the Indicator pressing PRINT will print the weight displayed on the Indicator along with the time and date. See Section 16, D.A.N. 2304 for more print format features
19.0 TROUBLESHOOTING

19.1 Flow Chart

FLOW CHART

START

YES

Does the indicator come on?

NO

If your display is unstable, or flashes “xRANGE” disconnect the j-box cord from Indicator. Is display still unstable?

YES

Poor Connection: Take them apart and clean connections. (Rust or paint should be wire brushed.) Then reconnect and tighten securely.

Bad Battery: Replace battery (weak battery may test good if tested with no load on battery)

Bad Power Cord: Make sure red wire is connected to (+) positive side and black wire is connected to (-) negative side. When using a multimeter to check for voltage, measure between pin 1 (pos) and pin 2 (neg). Meter should read between 10.5 and 14.5 volts DC if using a tractor power cord, black wire is positive and white wire is negative.

Bad Indicator: Try another indicator. (Even a different model or set-up should come on.)

NO

Put your weight on each load cell. Does the indicator respond to your weight?

YES

Are the readings all positive? If not Load Cell is upside down.

NO

Check all J-Box and Load Cell cables for cuts or pinched/flat spots.

YES

Your Indicator is probably defective. Try another Indicator to verify. Note: Be aware of electrical interference that might affect Indicator, such as mobile phones, CB radios, radio towers, electrical motors, etc. Make sure Load Cell cables are not attached to hydraulic lines or reservoir.

NO

Remove the cover from your J-Box

YES

Your Indicator is probably not set-up and calibrated correctly. Check the decal on the bottom of Indicator. It shows what type of Load Cells the Indicator was calibrated to. By pressing the on key while the Indicator is already on, you will get the Indicator’s “Set-up” and “Cal” numbers. See if they compare to the set-up and calibration numbers on the Indicator. Contact Dealer for further information.

NO

Does the scale weigh you approx. the same over all Load Cells? (Weight will not be accurate)

YES

Is there moisture inside the box?

NO

Did the J-Box have a bad connection or loose wire?

YES

Fix or replace the J-Box

NO

See next page
FLOW CHART

1. Disconnect all the Load Cell wires from the terminal blocks inside the J-Box (leave the Indicator on while connecting and disconnecting the wires, it will not damage Load Cells or Indicator if wires are shorted during this step). Is reading on Indicator stable?

   - NO
     Replace J-Box (be aware of electrical interference that might affect your scale such as: mobile phones, CB radios, radio towers, electric motors, etc.).

   - YES
     2. Zero balance the Indicator. (Press “NET/GROSS” then “ZERO”). Indicator should display “0”.

       **Note:** Hook up the Load Cells to the J-Box one at a time (only one Load Cell connected at a time). This will get a reading for each Load Cell. While performing this test, watch for any other symptoms such as erratic/unstable display. Indicator flashing “±RANGE”, negative reading, etc. If the Indicator reading should ever appear abnormal with any Load Cell connected then it is probably bad.

3. Connect one Load Cell back into one of the terminals in the J-Box. (The reading you get for each Load Cell is dependent on the size and type of each Load Cell and how much weight is over each Load Cell. In general, the number should be positive and stable.)

   **Note:** If the scale responded to your weight, that’s verification on the J-Box is OK. If the scale did not respond, either that Load Cell is bad or the J-Box is bad. Try the other Load Cells. If the Indicator still shows no response, the J-Box is bad. (Replace J-Box)

4. Record the Indicator reading with the Load Cell connected.

5. Stand or hang your weight over the connected Load Cell. Record how much the weight increased with your weight over the Load Cell. (A scale with only one Load Cell will weigh heavy.)

6. Disconnect the first Load Cell and reconnect a second one. Record the Indicator reading. Stand or hang your weight over the connected Load Cell. Record how much the weight increased.

7. Repeat step 6 for the remaining Load Cells. Remember to record your readings.

8. Bad Load Cells will have a reading that is either unstable, makes the indicator flash “±RANGE” or is more than three times greater or less than the average of the others. Also the readings of your weight over each Load Cell should be similar. (Probably 4 times your actual weight). Any differences could be an indication of a bad Load Cell or a structural problem.

Do not expect the Load Cells to give the same reading. It is common for Load Cells to have readings that vary by hundreds, even thousands. Especially when one is carrying more weight.
20.0 DECLARATION OF CONFORMITY

EMC
DECLARATION OF CONFORMITY


Manufacturer's Name: Digi-Star, LLC
Manufacturer's Address: W5527 State Hwy 106
Fort Atkinson, WI 53538

European Representative Name: Digi-Star International
European Representative Address: J.F. Kennedylaan 235
5981 WX Panningen
The Netherlands

Model Name: TMR3610, EZ3410, EZ2810
Conformance to:
- EN 51326-1 electrical equipment for measurement, control, and laboratory use
(See Report Number 314363.)
- EN 55011, for Class B ISM equipment for industrial, scientific, and medical equipment. (See Report Number 314383.)

Equipment Type/Environment: Electronic weighing scale systems; not legal for trade.
For agricultural, commercial and industrial use.

Beginning Serial No.: 00001001
Year of Manufacture: 2015

We, the undersigned, hereby declare that the equipment specified above conforms to the above Directive(s).

Manufacturer

Legal Representative in Europe

Signature

Full Name: Steven Gorseth
Position: Director of Engineering
Place: Fort Atkinson, WI U.S.A.
Date: March 24, 2015

Signature

Full Name: Wim de Wit
Position: Managing Director
Place: Panningen, The Netherlands
Date: March 24, 2015