



# EZ3600

## Operators Manual



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# TECHNICAL SPECIFICATIONS

**SIZE**

10.25" long x 8.0" high x 4" wide (260mm x 190mm)

**WEIGHT**

4.5 lbs (2.04 Kg)

**HELP MESSAGES**

Context sensitive help messages in 10 languages  
Long messages are scrolled

**TRANSDUCER EXCITATION**

8 volts D.C. Nominal  
Capable of driving ten 350 Ohms transducers  
Short circuit proof

**ATC**

Auto Temperature Compensation of the internal circuitry for high accuracy weighing measurements

**TRANSDUCER SIGNAL**

Compatible with transducers having full scale indicator transfer characteristics greater than 0.25 mv/v

**"AUTO RANGE"**

(Selectable) To increase display counts at weight values of 300 and 600 display counts.

**CONNECTOR**

AMP plastic weather resistant circular connector. Gold contacts.

**POWER REQUIREMENTS**

10.5 to 16.0 V.D.C.  
160 mA nominal with four 350Ω L.C.

**SET UP AND CALIBRATION**

Via front panel

**GROSS RANGE**

999,999 max. display

**LOW BATTERY WARNING**

Enabled at 10.5V nominal

**POUND/KILOGRAM**

Selectable

**DISPLAY**

STD EZ 6 Digit LCD 1.0. high  
EZ VIEW 6 Digit LCD 1.7" high

**DISPLAY RESOLUTION**

.01, .02, .05, .1, .2, .5, 1, 2, 5, 10, 20, 50, 100

**DISPLAY UPDATE RATE**

Selectable: 1, 2, 3, 4 times/sec.

**MAX. DISPLAY RESOLUTION**

Adjustable to 40,000 counts max.

**ZERO TRACKING**

Selectable, On/Off

**SPAN ACCURACY**

$\pm (.1\% + .005\% / ^\circ\text{F})$  or  $(.1\% + 0.009\% / ^\circ\text{C})$  full scale  $\pm 1$  output count

**MOTION DETECTION**

Selectable, On/Off

**ZERO ACCURACY**

$(.005\% / ^\circ\text{F})$  or  $(0.009\% / ^\circ\text{C})$  full scale  $\pm 1$  output count for 0.5 mv/v transducer

**ENVIRONMENTAL ENCLOSURE**

IP65, IEC 529

**WEIGH ALGORITHM**

4 internally selectable digital filters to optimize performance  
(General, Slow, Fast and Lock-on)

**HOLD MODE**

Used in mobile applications to stabilize displayed weight while moving the scale

**NON-VOLATILE MEMORY**

EEPROM for balance

**OPERATING TEMP**

-29°C to 60°C                      -20°F to 140°F

**REMOTE INPUTS**

Tare / Advance Recipe / Re-enter Preset

## SAFETY DURING USE



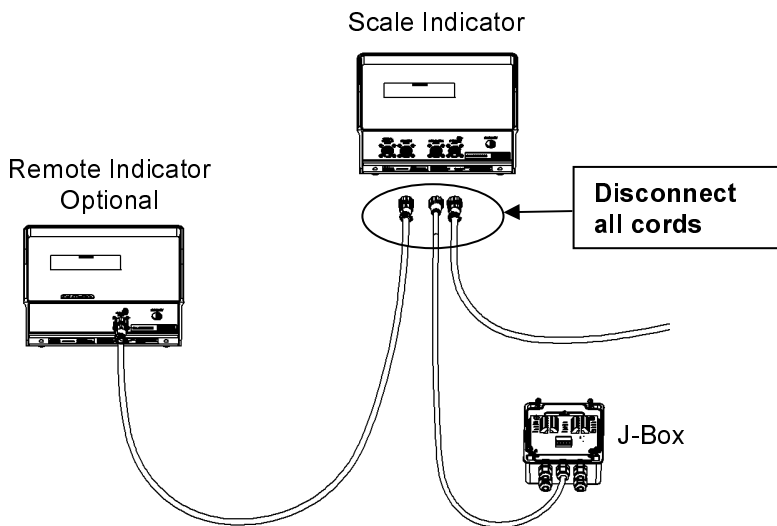
### Caution

#### Cleaning

Do not use running water (high pressure cleaners, hoses) to clean the indicator.

#### Charging battery and welding

Disconnect all cables from the weighing indicator before charging the battery or welding on the machine. If cables are left connected, the weighing indicator and connected load cells could be damaged.



## **FEED MANAGEMENT SOFTWARE**



A full featured Windows<sup>®</sup> based system that offers powerful features that are easy to use.



Entry level system easily upgraded.  
Based on features of TMR Tracker



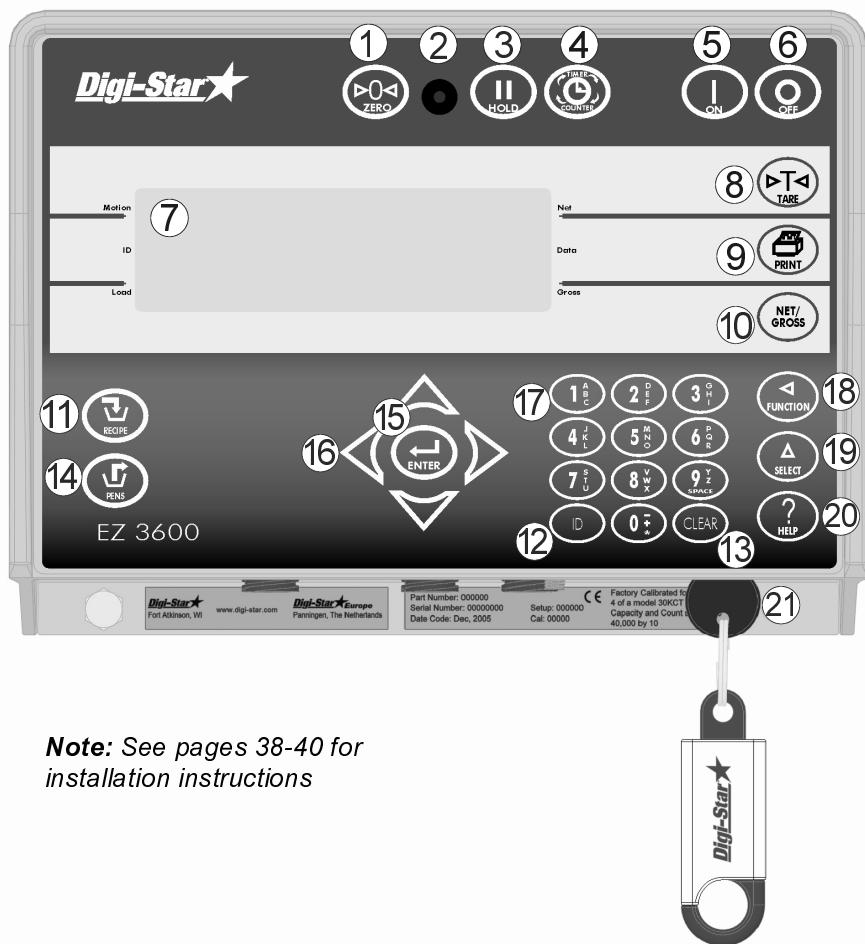
Remote site monitoring software.  
Works with email service to connect  
Tracker to remote location



Front-end tool for beef feeding customers  
to enter ingredient, recipes, corral and  
wagon information.

For additional information go to [www.digi-star.com](http://www.digi-star.com)











# INDICATOR OVERVIEW

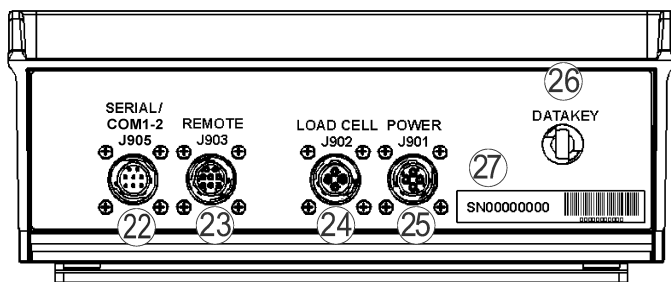


**Note:** See pages 38-40 for installation instructions

- ① – press and hold for 3 seconds to zero balance.
- ② Pre-Alarm Light – flashes and alarm sounds when weight is within preset limit.
- ③ – holds displayed weight when moving machine.
- ④ – not used.
- ⑤ – turns indicator on. Press while on to run self test.
- ⑥ – turns indicator off.
- ⑦ Display Window – Displays current actions.
- ⑧ – temporary zero (Net Mode).



- 9  – records to memory or prints displayed weight.
- 10  – toggles between Net and Gross weights.
- 11  – selects recipes in memory.
- 12  – enters user number and feeding number. Any number can be used for user until number assigned by management software.
- 13  – clear (backspace).
- 14  – press in List Mode to begin pen unloading. See page 14.
- 15  – accepts change or proceeds to next item.
- 16 Directional Arrows - moves through list of information.
- 17 Keypad – inputs numbers or letters.
- 18  – performs task displayed by select.
- 19  – displays additional tasks.
- 20  – press for additional information.
- 21 DataKey –transfers data between computer and indicator.




- 22 Serial/Printer Port – optional, communicate with computer and other digital input/output devices.
- 23 Remote Port - optional remote display.
- 24 Load Cell Port – for J-Box cord.
- 25 Power Port– for Power Cord.
- 26 DataKey Port– for DataKey insertion. Turn DataKey to upload/download data.
- 27 Serial Number Plate – Serial Number of indicator.

See pages 38-40 for installation instructions.


# **OPERATION**

## **Turn on Indicator**

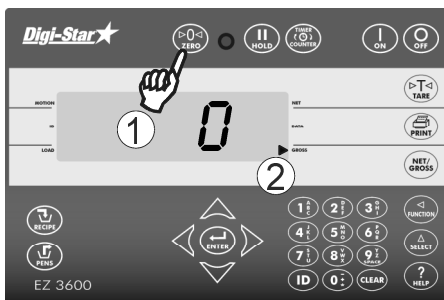



1. Press .



1. Enter user number if required.
2. Press .

## **Zero Balance Indicator**



1. Press and hold  for 3 seconds to zero balance indicator.
2. Flashing arrow points to gross next to the display window, indicator ready to weigh.

## Tare and Net/Gross

Tare is a temporary zero (Net Weight) to display total weight (Gross Weight) Press **NET/GROSS**.



1. Weight displayed, press **TARE** sets zero weight.



2. Pressing **TARE** displays zero weight and flashing arrow on side of display points to NET.



3. Add more weight.



4. To know total of original weight of 4000 pounds plus added 300 pounds, press **NET/GROSS** to show 4300 pounds, flashing arrow points GROSS.



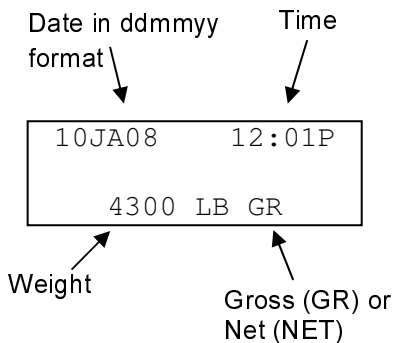
5. Press **NET/GROSS** 300 pounds displayed flashing arrow points NET.

## Print Key

**Note:** Optional serial port must be installed for printing.



1. Press **PRINT**. Indicator sends data to printer or PC.




# DATA TRANSFER


## DataKey Mode



To upload data:

2. Insert DataKey turn clockwise.

3. Press .



**Note:** If indicator displays uncompleted data in memory, press  to overwrite uncompleted data.

Remove DataKey when transfer complete.

To download data:

Insert DataKey, turn clockwise, indicator automatically sends data to DataKey. Remove DataKey.

## RF DataLink Modes

Operation	Message
DataLink connects with indicator	←PC→
DataLink sends data to indicator	DL←IN
Indicator receives data	ALL FEED LINES RECIVED -PRESS RECIPE KEY TO CONTINUE
Data compete, indicator sends data to DataLink	←PC→
Data sending	DL→OUT
To send data to PC if operator does not complete all feeding at end of feeding schedule. Press  until display shows message (right column), press  to select.	EZ→PC
The indicator marks uncompleted data as completed and sends feeding data to DataLink.	

**Note:** After sending, uncompleted data erased.

**Note:** Indicator may also be manually programmed, see page 23 for instructions.

## Indicator Data Formats

Data sent to indicator sent in two formats:


**Complete Loads Mode:** Each load built by PC software. It assigns pens to recipe and builds exact load for pens.

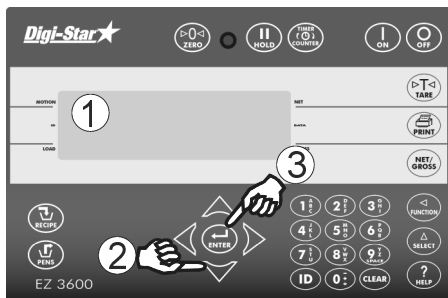
**Recipe and Pen List Mode:** PC software sends recipe data and pen data in two different fields. Operator selects recipe to build and pen deliveries.




# LOADING AND FEEDING COMPLETE LOADS MODE

## Starting A Recipe



1. Press .




1. Indicator scrolls feeding number, first recipe and pen number.
2. Press  and  to find desired recipe.
3. Desired recipe in display line, press .

## Resize Recipe Weight




Indicator gives option to resize pen load weight.

1. Enter new weight or keep original weight.

2. Press .

**Note:** Press  to resize by number of head in pen.

**Note:** Press  to accept pen values without resizing.

**Note:** If indicator warns resized amount is over capacity, press  to override.

## Loading Recipe

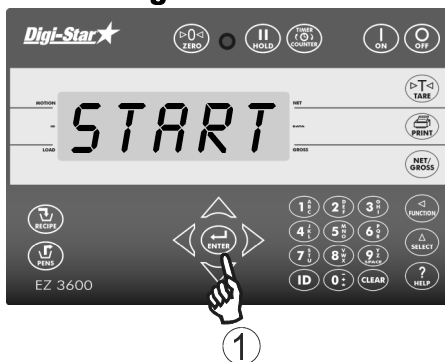


1. First ingredient weight flashes in display. Load ingredient.
2. Weight approaches zero, alarm will flash and sound.
3. a. Manual Advance: Weight reached, press to accept. Press again to start next ingredient.

or

3. b. Auto Advance: When preset weight reached, indicator advances to next ingredient.

## Unloading to Pens



Ingredients loaded, indicator displays first pen to unload.

1. a. Manually Advance: Press to go to pen. When weight reached, press to accept. Press again to start next pen.

or

1. b. Auto Advance: When preset weight reached, indicator advances to next pen.

Last pen complete, indicator displays "RECIPE COMPLETE".

**Note:** Do not press .

**Note:**

If different pen needed press or to find desired pen.


Press for pen delivery.



# RECIPE AND PEN LIST MODE

## Starting a Recipe






1. Press .

2. Display reads:

Example:

RECIPE DRYCOW TOT- 2500

3. Press  and  to select recipe,  to start.


## Resize Recipe Weight



Indicator will display: *RESIZE*, then the resize weight.

1. Enter desired recipe weight.

2. Press , indicator resizes ingredients to recipe's total weight and displays first ingredient to load.

**Note:** Indicator warns *resized* amount over capacity, press  to override.

## Loading Recipe



1. First ingredient and weight flash in display. Begin loading ingredient.
  2. Weight reached, alarm will flash and sound.
  3. a. Manual Advance: Weight reached, press **ENTER**. Press **ENTER** to start next ingredient.
- or

3. b. Auto Advance: When preset weight reached, indicator advances to next ingredient.

## Unloading Pens




1. When ingredient loading complete, display reads "RECIPE COMPLETE". Press **PENS**. Indicator displays unloading pens.
  2. Press **▲** or **▼** to select desired pen.
  3. Press **ENTER**.
  4. Pen and weight displayed, begin unloading to pen.
  5. a. Manual Advance: Weight reached, press **ENTER**. Press **ENTER** again to start next pen.
- or
5. b. Auto Advance: When preset weight reached, indicator advances to next pen.
6. When unloading is complete press **RECIPE** to start next recipe.

# ADVANCED COMMANDS

## Unload Partial Pens



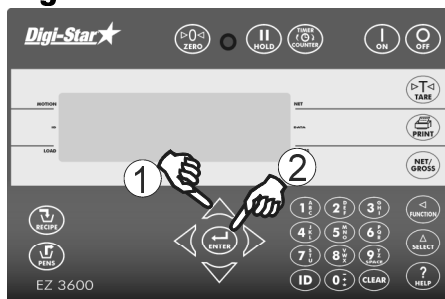
1. Press  to advance to next pen without finishing current pen.




**Note:** If pen tolerance is set and feeding stopped before preset weight reached, alarm sounds, indicator displays:

*PEN UNDERFED – PRESS PRINT  
TO REMOVE PEN FROM LIST  
PRESS ON TO KEEP PEN*

See page 20 for Pen Tolerance set-up.

## Go Back to Skipped Ingredient

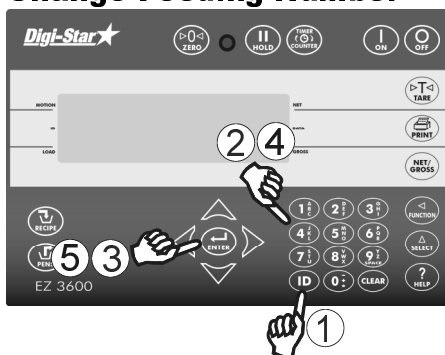


1. Press  or  to move back.
2. Press .

**Note:** Ingredient weight changed more than 4 display counts cannot restart that ingredient.

**Example:** If minimum display change is 10 lbs/kgs, more than 40 lbs/kgs, cannot restart that ingredient.

## Change Feeding Number



1. Press **ID**.
2. Enter user number.
3. Press **ENTER**.
4. Enter feeding number (1-9).
5. Press **ENTER**.






## Clear Indicator Memory




1. Press **OFF**.
2. Press and hold **CLEAR**.
3. Press **ON** while holding **CLEAR**  
indicator scrolls:  
*ON=CLEAR CLEAR=REUSE*  
*NET=EXIT.*  
Release **CLEAR**.
4. Press **ON** to erase feeding memory.

## Re-Use Recipe/Pen Data



1. Indicator  OFF.
2. Press and hold .
3. Press  while holding  indicator scrolls:  
 ON= CLEAR CLEAR= REUSE  
 NET= EXIT.  
 Release .

4. Press  again to re-use recipe and pen data.


**Note:** When re-using data stored in indicator, it takes recipe and pen information and removes completed weights loaded or unloaded and marks them undone. It will not accumulate data day to day. Download data to DataKey before re-using recipe and pen data stored.


**Note:** For continuous re-use, set D.A.N. **466** to on. See page 36.

## Add a Pen to Pen List




1. Enter pen name or number.

2. Press .

3. Press .




1. Press  or  to find desired recipe.


2. Press .



1. Enter amount to unload to pen.

2. Press .


1. Enter number of animals / pen.

2. Press .



1. If zones are active display reads:

"ENTER ZONE 0-9"

2. Press .

# COMMONLY USED DIRECT ACCESS NUMBERS

## Pre-Alarm

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



1. Enter **401** and press **SELECT**.
2. Press **SELECT** again to change between WEIGHT and PERCENT.
3. Press **ON**.
4. Enter Pre-Alarm value. Press **ON**.

## Auto Ingredient / Manual Pen Advance

Ingredients automatically advance,  
Pens manually advance.



1. Enter **461** and press **SELECT**.
2. Press **SELECT** choose on/off.
3. Press **ON**.

## Auto Advance

Allows hands free operation of programmed recipes. When auto advance feature activated, indicator automatically advances to next ingredient once tolerance, and delay time requirements met.

## Tolerance

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



1. Enter **442** and press **SELECT**.
2. Press **SELECT** to choose tolerance method.
3. Press **ENTER** to save.
4. To change percentage, press **SELECT** until desired value is shown. To change weight, enter value.
5. Press **ENTER** to save.

**NOTE:** OFF setting always advances after preset amount reached.

Example: Preset = 1000 lbs. If tolerance is set to 5%, Auto Advance will activate at 950 lbs or 95% of preset weight.

## Pen Tolerance

Available in List Mode Only



1. Enter **462** and press **SELECT**.
2. Press **ON**, screen will display "PENTOL".
3. Enter weight or percentage desired.
4. Press **ON**.



## Delay Time

Changes time indicator waits before automatically advancing to next feedline.



1. Enter **443** and press **SELECT**. Enter delay time in seconds.
2. Press **ENTER** to save.

**NOTE:** Set to **0** prevents automatic advance.

## Drive Ratio

Drive ratio is number of turns seen by sensor divided by number of mixer rotations.



1. Enter **422** and press **SELECT** to enter drive ratio value.
2. Press **ON**.

## Scale ID or Truck ID

Each indicator has scale ID.

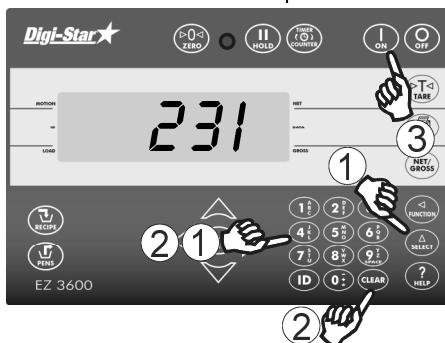


1. Enter **108** and press **SELECT**.
2. Press **CLEAR** to erase old ID, enter the new ID.
3. Press **ON**.

**Note:** TRM Tracker or Diet Manager, software ID must match.

## Radio Number

Used with cab control option.



1. Enter **231** and press **SELECT**.
2. Press **CLEAR** to erase number, enter new number.
3. Press **ON**.

**Note:** Do not use same number for two different indicators.

## Resize Option



Make weight changes to pens unload weight or recipe load size.



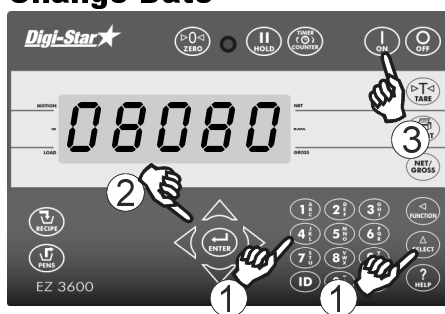
1. Enter **448** and press **SELECT**. Press **SELECT** again, change On/Off.
2. Press **ON**.



## Change Time



1. Enter **202** and press .
2. Enter time.
3. Press  to save.


## Change Date



1. Enter **204** and press .
2. Enter date in format: ddmmyy
3. Press  to save.

## Manual Programming



1. Enter **439** and press .
2. Follow instructions on page 24.

# MANUAL PROGRAMMING OF 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




Enter ingredient amounts in (%). Indicator calculates amounts for each ingredient. Total of all ingredients must equal 100% in this mode.

## Amount Per Load

Allows entry of ingredient amounts required per load.





## Change Entry Method



1. Enter **441** press .
2. Repeatedly press  scrolls following entry methods:  
 1 = Amount per Animal  
 2 = Percent (%) per Load  
 3=Amount per Load
3. Press  sets entry method.

## Ingredient Re-Name



- Ingredient names are listed in a standard table and can be changed using the following 9 steps.
1. Repeatedly press  until **INGRNM** displays.
  2. Press .
  3. Press  shows ingredient.
  4. Press  again to edit name. Display briefly shows **EDIT** and flashing cursor displayed.



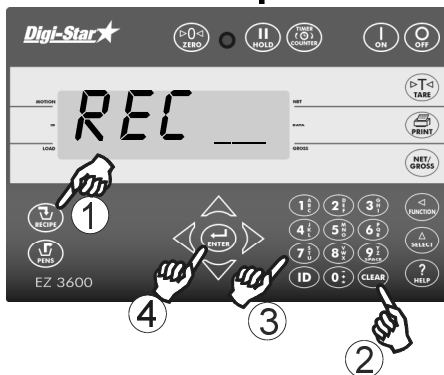
5. Repeatedly press **CLEAR** erases ingredient.
6. Press "1" key once enters 1, twice enters A, three times for B, other numbers on keypad work same.
7. Pause for one second after entering a number or letter and they shift to left so a new letter or number can be added.
8. Press **ENTER**.
9. Press **NET/GROSS** to exit.

## Print Ingredient Names



1. Press **ENTER** displays first ingredient.
2. Press **PRINT** prints total accumulations for this ingredient.
3. Press **PRINT** again prints accumulations for all ingredients currently used in all recipes.
4. Press **PRINT** again prints names for all ingredients. Ingredients not used by recipe, show unused.

## Enter New Recipe




1. Press and hold **RECIP** until indicator beeps and displays *PROGR* then displays either first recipe programmed or *REC* \_\_\_\_.
2. Press **CLEAR**.
3. Enter recipe number.
4. Press **ENTER** enters number.




5. Press  scrolls available ingredients.



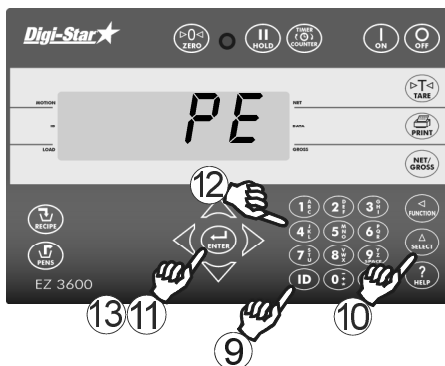
6. Press  to select ingredient on screen.


7. Enter amount of ingredient required. (see note)


8. Press  to store amount.

Repeat steps 5-8 for each ingredient required.

**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  to change to pens.

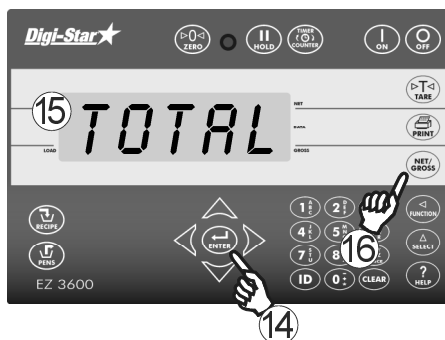
10. Press  to scroll available pens.


11. Press  to select pen on screen.

12. Enter amount for pen.

13. Press  to store amount.

Repeat steps 10-13 for each pen required.



14. Press  to complete recipe.


15. Indicator calculates and displays *TOTAL* amount of recipe.


Repeat steps 1 - 15 until all recipes programmed.


16. Press  to exit.

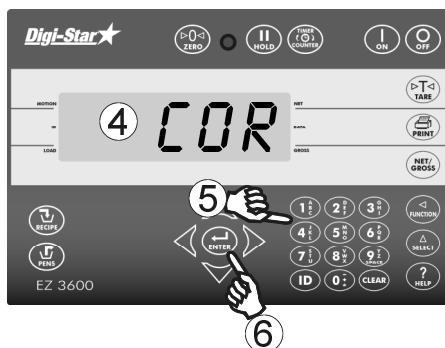
## Edit Recipe



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


2. Repeatedly press  until recipe number displayed.

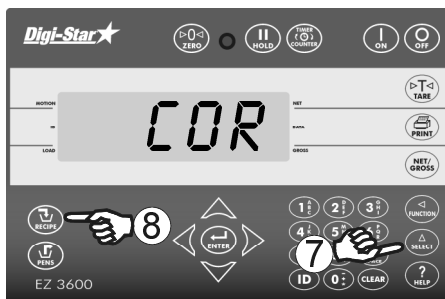
3. Press  to edit this recipe.



4. First ingredient name displayed followed by *AMOUNT*.

5. Enter new amount.

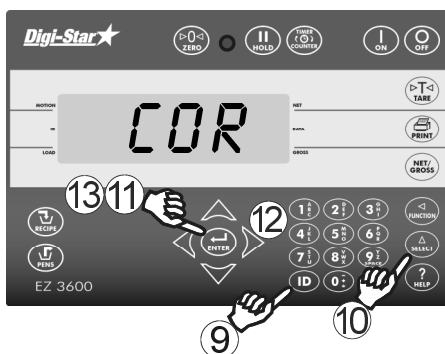
6.  stores and advances to next feedline.



7. Press **SELECT** to return to previous ingredient.

Repeat steps 5-6 for each feedline change.

8. Press and hold **RECIPE** to insert a new ingredient. This will insert just before the current ingredient on the screen.



9. Press **ID** to switch between ingredients and pens.
10. Press **SELECT** to scroll available ingredients or pens.
11. Press **ENTER** to select ingredient or pen.
12. Enter amount required.
13. Press **ENTER** to store amount.



14. Press and hold **ZERO** to erase an ingredient. Message *ZERO TO ERASE* scrolls.
15. Press **ZERO** to erase the current ingredient or pen displayed on the screen.
16. Press **NET/GROSS** to exit.



## Erase A Recipe



1. Press and hold **RECIPE** until indicator beeps and displays *PROGRAM* followed by first recipe number.
2. Repeatedly press **RECIPE** until desired recipe number displayed.
3. Press and hold **ZERO** message *PRESS ZERO TO ERASE RECIPE OR NET/GROSS TO EXIT* scrolls.
4. Press **ZERO** erases recipe.
5. Press **NET/GROSS** exits.

## Review A Recipe



1. Repeatedly press **RECIPE** until recipe shown.
2. Press **RIGHT** to display each feedline, weight or % and total for recipe.
3. Press **NET/GROSS** to exit.

## Printing Single Recipe



**Note:** Optional serial port must be installed for printing.

1. Press displays first recipe. Repeatedly press displays other recipes.
2. Press prints recipe.
3. Press .

## Printing All Recipes



1. Press displays first recipe.
2. Press prints recipe.
3. Press again prints all recipes in memory.
4. Press .

# RUNNING A RECIPE

## Using Amount Per Animal




1. Repeatedly press  until recipe displayed.
2. Press  to accept recipe.
3. Indicator displays *LOADING RECIPE*.




4. Indicator displays *RESIZE* followed by *PEN*.
5. Indicator displays flashing number. Change number to amount of animals to feed.

**NOTE:** If using percent/load, change number to weight amount for pen.

6. Press .




7. After resizing all pens, indicator displays ingredient to load and how much to load. As ingredient loaded indicator counts down to zero.
8. Press  to advance to next ingredient.

(See page 20 for auto advance)



9. After last ingredient loaded, indicator displays *START DELIVERIES*.

10. Indicator displays pen to unload and how much to unload. As pen is unloaded indicator counts down to zero.

11. Press  to advance to next pen.



12. After last pen unloaded, indicator displays *RECIPE COMPLETE TOTAL*.

## OTHER FUNCTIONS

### Hold

Hold mode prevents displayed weight from changing while moving.



1. Press **HOLD** hold.
2. Press **HOLD** returns indicator to normal.

If weight is added while in hold mode, press **ON** to cancel hold.


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


### Using Dimmer Option



1. Repeatedly press **SELECT** until **DIMMER** is displayed.
2. Press **FUNCTION** dims backlight.

# MENUS AND CALIBRATION

Enter D.A.N. press  displays setting name, allows value change.

Press  to save setting.

SETTING [display]	D.A.N NO.	OPTIONS [displayed] BOLD=DEFAULT	DESCRIPTION	
MENU 1. BASIC FEATURES IN MOST INDICATORS				
LANGUAGE (LANGAG)	101	English Dutch French German Italian Portuguese Spanish Danish Hungarian Spanish	(ENGLISH) (NEDERL) (FRANCS) (DEUTSH) (ITAL) (PORT) (ESPAÑ) (DANISK) (MAGYAR) (VESTR)	Select language to be displayed.
TR HOLD (TR HLD)	107	ON/OFF		Display gross weight if TR key is held for 3 seconds.
SCALE ID SETUP (SCALEID)	108	NEW EZ		Identity of scale location (truck id or Mixer number).
MENU 2. CLOCK, PRINTER, COMMUNICATION & ESTIMATED WEIGHT FEATURES				
TIME FORMAT (TIME F)	201	24 HR AM/PM		Select time format - AM/PM or 24 hour
1 TIME (TIME)	202	XX:XX:XX		Select key changes time, function key chooses hh:mm:ss.
DATE FORMAT (DATE F)	203	1-mm-dd 2-mm/dd/yy 3-mm/dd/yyyy 4-dd-mm 5-dd/mm/yy 6-dd/mm/yyyy 7-ddmoyy 8-ddmoyyyy.		Select date format
DATE (DATE)	204	Enter XXXXXX		Select key changes date - function key chooses mm/dd/yy .
SCALE NUMBER (SEL NO)	231			Select scale number for cab control communication

SETTING [display]	D.A.N NO.	OPTIONS [displayed] BOLD=DEFAULT	DESCRIPTION
REMOTE DISPLAY ( <i>RMDISP</i> )	234		Select type of remote display
<b>MENU 3. SCALE CALIBRATION SETTINGS</b>			
DISPLAY UNIT ( <i>LB-KG</i> )	303	<b>LB/KG</b>	Display pounds -lb or kilograms -kg
MIMIC TYREL ( <i>TC1300</i> )	321	<b>OFF/ON</b>	If ON -records preset weights like a TYREL TCX-1300 indicator. Indicator Tracks gross weight while batching.
<b>MENU 4. PRESET, BATCHING &amp; ROTATION COUNTER FEATURES</b>			
PRE ALARM ( <i>P MTHD</i> ) & ( <i>P-ALM</i> )	401	<b>WEIGHT PERCNT</b>	Select weight or percentage method, then enter a value to activate an early warning that indicator is reaching the preset.
BUZZER ( <i>BUZZER</i> )	404	<b>1-4, ON/OFF</b>	ALARM BUZZER -allows user to turn off alarm horn.
TIMER/ COUNTER ( <i>TMRC TR</i> )	421	<b>REV TIME</b>	Select time or mixer revolutions to decrement mix timer/counter.
DRIVE RATIO ( <i>DRATIO</i> )	422	<b>0001.00</b>	Enter the number of input pulses that equal 1 mixer revolution.
MANUAL PROGRAMMING ( <i>PROGRAM</i> )	439	<b>PC/SCALE</b>	PC: Requires a Datakey with programming. Scale: Allows user to manually program indicator.
ENTRY METHOD ( <i>E MTHD</i> )	441	<b>1,2,3</b>	Select batch 1- amount/animal 2-percent/load 3- amount/load
TOLERANCE ( <i>TOLER</i> )	442	<b>OFF, .5, 1-5, 7, 10</b>	Select tolerance weight percentage to accept ingredient.
INGR. ADVANCE DELAY ( <i>DELAY</i> )	443	<b>MANUAL, 1-3, 5, 7, 10, 20, 30, 60</b>	Select seconds to delay before advancing to next ingredient.
FORCE USER ID ( <i>USERID</i> )	446	<b>ON/OFF</b>	If ON -operator must enter user ID to use indicator.

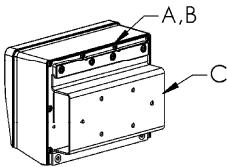
SETTING [display]	D.A.N NO.	OPTIONS [display] BOLD=DEFAULT	DESCRIPTION
RESIZE RECIPE (RESIZE)	448	ON/OFF	If ON -operator can change recipe size.
RECIPE TOTAL (RECTOT)	451	ON/OFF	Selects total amount to be displayed when starting recipe.
TOLER OVER LOCK (OVERLK)	453	ON/OFF	If ON -prevents auto-advancing if preset exceeds tolerance
FEED ZONE (FDZONE)	454	ALL, 1-9	Select feed zone for recipe deliveries.
UNDONE RECIPES (UNDN I)	455	ON/OFF	If ON -displays all incomplete recipes or enable if indicator is stationary mixer/batch when using Datalink.
AUTO START PENS (AUTPEN)	458	ON/OFF	If ON -starts pens list after recipe is loaded in list mode format.
MANUAL PEN ADVANCE (MANPEN)	461	ON/OFF	If ON -overrides automatic advance for pens.
PEN TOL (T MTHD) & (PENTOL)	462	WEIGHT PERCNT	Select weight or percentage method, then enter pen tolerance.
PEN WEIGHT (PEN WT)	463	LOAD GROSS NET	Select method for displaying pen Weight - net, load, or gross.
DOUBLE KEY PRESS PREV (DBKEY)	465	ON/OFF	Select method ignores double pressing of keys when advancing ingr. while loading mixer.
RECIPE REMAIN ACTIVE (RE-USE)	466	ON/OFF	Select ON to reuse recipes.
<b>CALIBRATION</b>			
SETUP NUMBER (SETUP)	871		Quick entry method selects weigh method 1-4lbs, 5-8 kg, gain 1-9, display counts 1-9 and capacity *1000
CALIBRATION NUMBER ([CAL])	872		Weight displayed at 0.4mV/V for these load cells



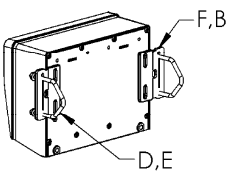


INSTALLATION

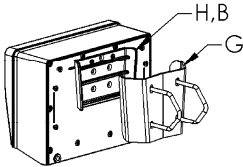
Indicator Mounting



RAIL MOUNT

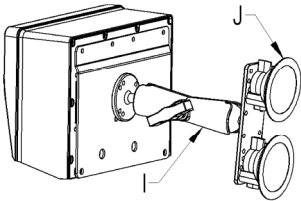


WING MOUNT



WEDGE MOUNT

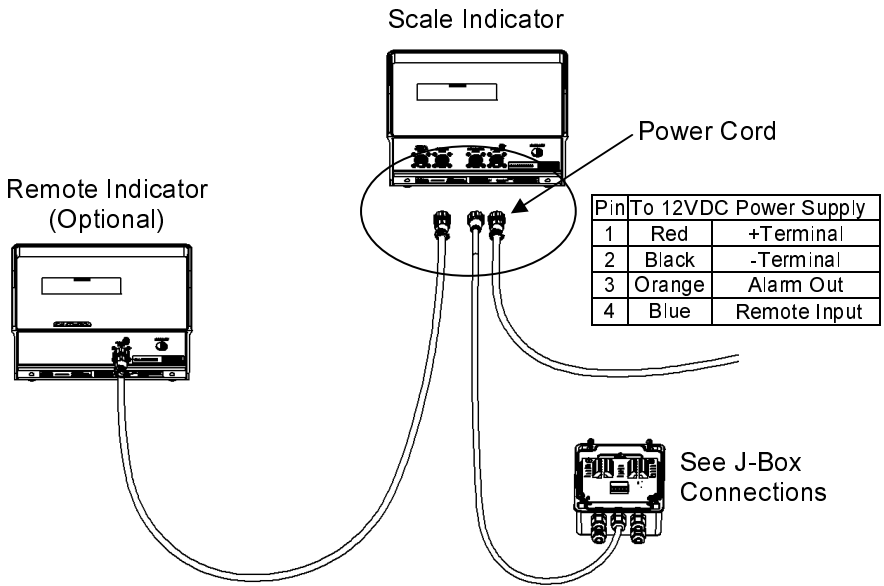
KEY	PART NUMBER	DESCRIPTION
A	404353	BRACKET-EZ3 PLASTIC RAIL *
B	403780	SCR-#10 X 5/8 FHSTS BLACK ZP
C	840459	SUPPORT-HAT BRACKET
D	405069	U-BOLT 1/4-20 X 3.25 ZP
E	405084	NUT-1/4-20 TOP LOCKING FLANGE
F	403770	BRACKET- WING MOUNT *
G	405124	PACK-WEDGE MOUNT BRACKET WITH U-BOLTS & FLANGE NUTS
H	405244	EZ3 WEDGE MOUNT



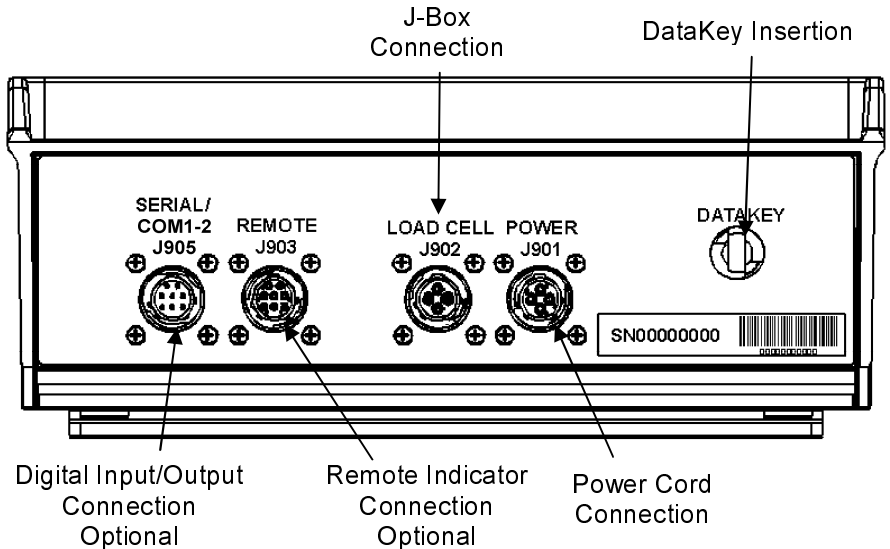
RAM MOUNT

KEY	PART NUMBER	DESCRIPTION
I	404799	RAM MOUNT FOR EZ III INDICATOR WITH HARDWARE
J	404230	RAM SUCTION CUP W/TWIST LOCK

## Cable Connection



## Indicator Connection Diagram

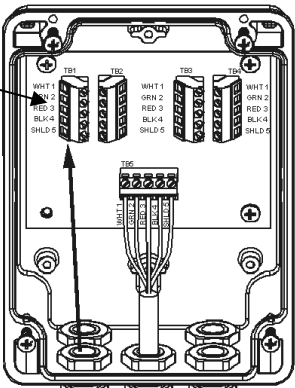


## Bottom Panel Cable Connections

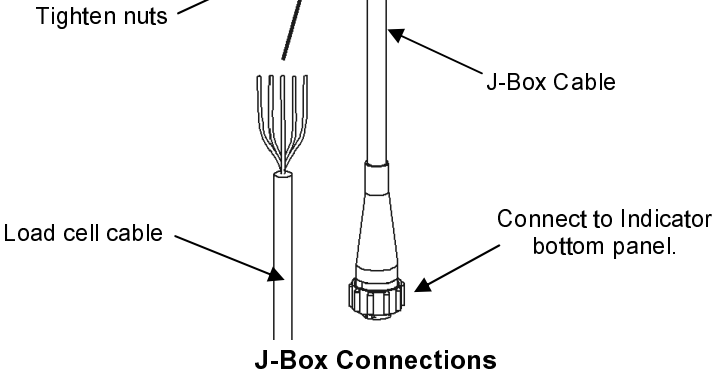
Connect Load Cells To J-Box

Connect load cell wires  
to terminal blocks.  
See Wire Color Key

Wire Color Key		
	Color	Description
1	White	Signal +
2	Green	Signal -
3	Red	Excitation +
4	Black	Excitation -
5	Shield	Shield



J-Box Illustrated  
for 4 Load Cell  
Installation



Load Cell Direction



Observe direction of arrow when installing load cell.

## OPTIONAL EQUIPMENT

### Cab Control (Wireless)



#### Features

- Wireless remote with full key control of indicator on mixer
- Mount remote in easy view of loading
- Improves loading accuracy

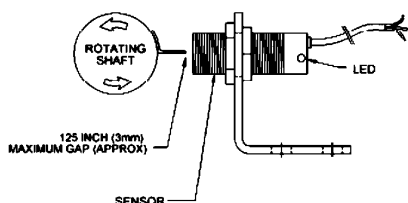
#### Functions

- Communicates with multiple mixers
- Easily call-up recipes without leaving loader

#### Specification

- Internally mounted 2.4 GHz radios
- Up to 1000 foot range
- 24 channels
- 12 or 24 volt DC system

### Rotation Counter Sensor



Use with EZ3600 or EZ4600 indicators equipped with rotation counter port. Sensor allows operator to program indicator to count auger or PTO rotations for accurate mix.

## **Transmitter/Receiver**



Transmitter (shown) with factor installed receiver in indicator. Use to zero indicator from remote location. Operating range about 90 feet.

## **Remote Indicators**



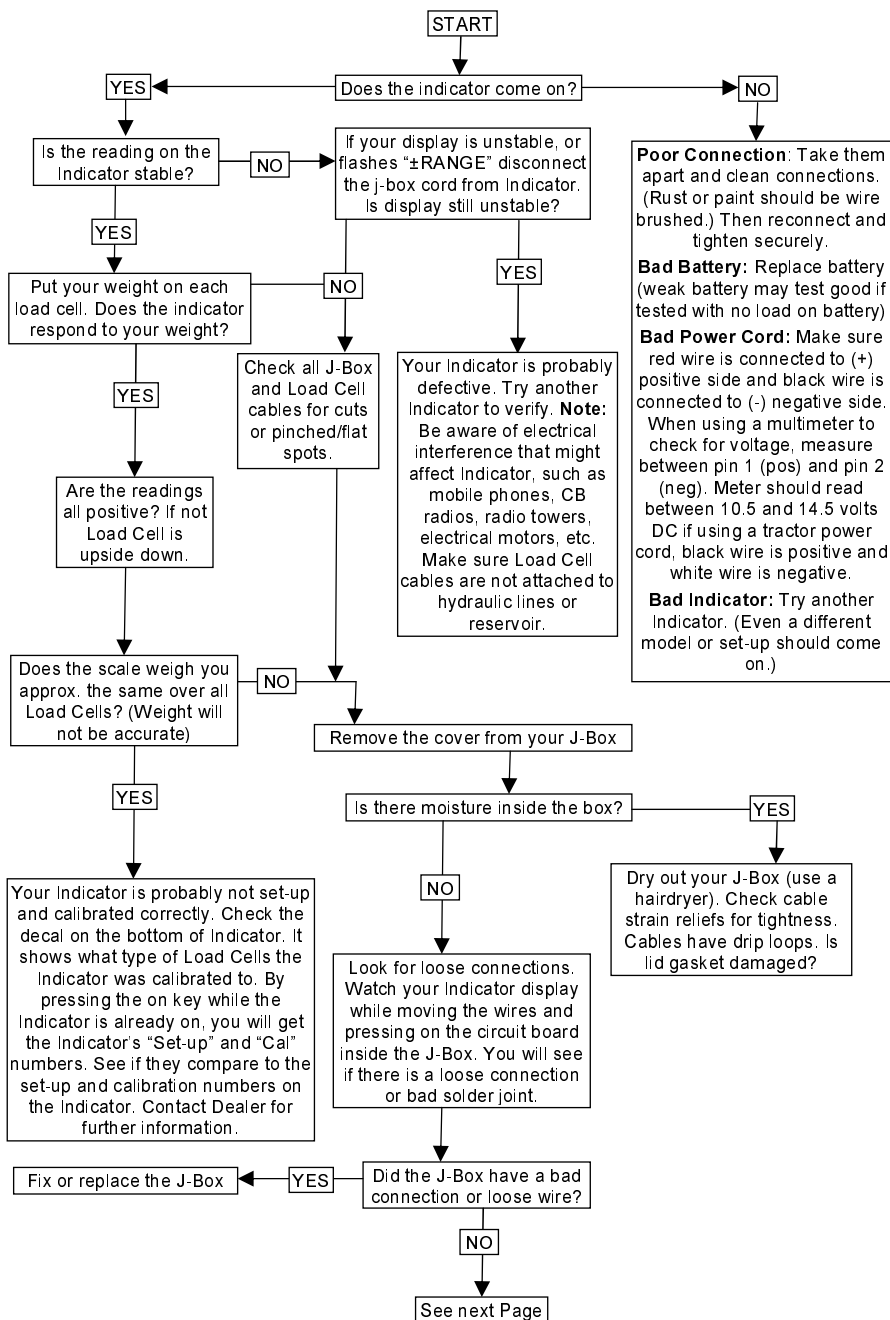
RD440 small remote display with 1" high numbers

RD2400V backlit remote display with 1.7" high numbers

RD4000 LED remote display with 4" high numbers

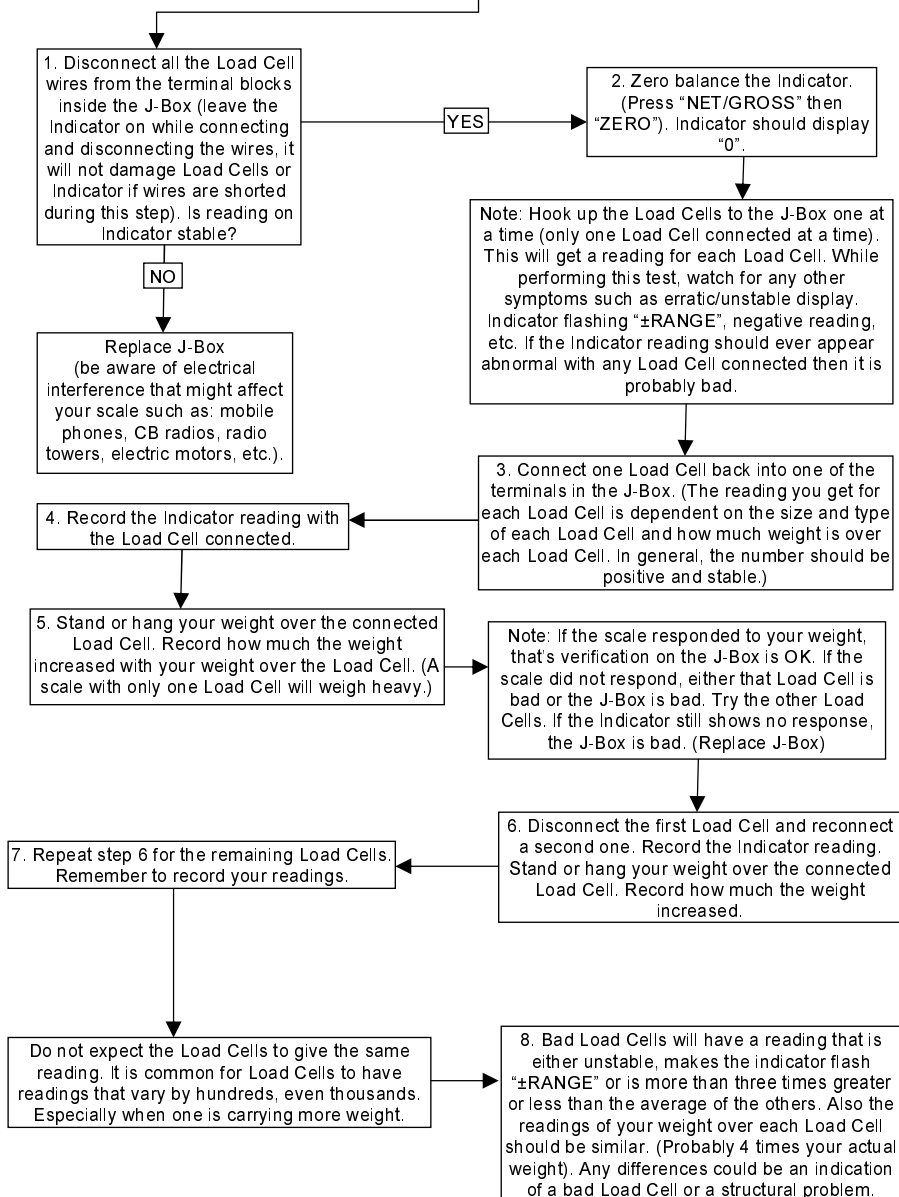
## TROUBLESHOOTING

## FLOW CHART



## FLOW CHART

Continued





# **LEGAL-FOR-TRADE CERTIFICATION**

## ***United States***

In the US, the Legal-for-Trade certification is regulated by the National Type Evaluation Program (NTEP). The NTEP certificate number is 08-40.

## ***Canada***

Measurement Canada is the Canadian agency that regulates Legal-for-Trade scales. The approval number from Measurement Canada is AM-5678C.

## **Legal for Trade Features**

Digi-Star Legal-for-Trade indicators are modified to comply with US and Canadian regulatory agencies. Some of these modifications are:

### ***Load Cell Disconnect Sensor***

Indicator displays *+RANGE* or *-RANGE* without flashing load when cells are disconnected.

### ***Hold Function***

The Hold function has been disabled. (EZ3400, EZ3600 and EZ4600)

### ***Printing***

Printing weight values is not allowed while in motion, during self-calibration, or if any error conditions such as *+RANGE*, *OVRCAP* or *OVRFLW* are active.

### ***Lock-On Weigh Method***

Lock on weigh method (for animal weighing) cannot be enabled.

### ***Tare***

Cannot tare a negative weight.

### ***Labeling***

The capacity and division information is shown on the front of the indicator.

## **Sealed to Prevent Un-authorized Modifications**



The scale indicator is sealed by a Category 1 Audit Trail. To access the audit trail in the normal weighing mode, press and hold the “ON” key. This will display the current parameter and calibration event count values. Pressing any key will return the indicator to the weighing mode. The audit trail system is always active and cannot be altered. Audit trails are stored in flash memory and do not require batteries to maintain the audit trail values.

Changing any of the following parameters will change the Calibration event count value or parameter audit event count value. This will void your Legal-for-Trade certification unless performed by properly trained personnel.

- Setup
- Calibration
- Capacity
- Display Count
- Display Units
- Weigh Method
- Motion
- WMA1-1 through WMA2-3
- LFT Option Setting

## ***On Legal-For-Trade Units Only***

Perform the following procedure on an empty and clean machine before the unit is to be “site-certified”.

- Install the LFT indicator on the machine and connect all load cells.
- Zero/balance the scale with no load on the machine.
- Enter “871” and press . Press  to accept.