

EZ3600

Operators Manual



<u>Digi-Star</u>

<u>Digi-Star</u>★_____ TABLE OF CONTENTS

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<u>Digi-Star</u>★_____™ TECHNICAL SPECIFICATIONS

SIZE 10.25" long x 8.0" high x 4" wide (260mm x 200mm x 100mm)

WEIGHT

3.3 lbs (1.5 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

АТС

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

TRANSDUCER SIGNAL

Compatible with transducers having full scale indicator output of 0.25 mv/v to 3.0 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 350 Ω 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 1.2". 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 ±(.1% + .005%/ °F) or (.1% + 0.009% °C) full scale ± 1 output count

MOTION DETECTION Selectable, On/Off

ZERO ACCURACY

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

ENVIRONMENTAL ENCLOSURE IP65, IEC 529

WEIGH ALGORITHM

Front panel 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

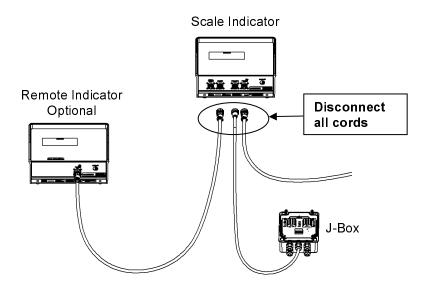


Cleaning

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

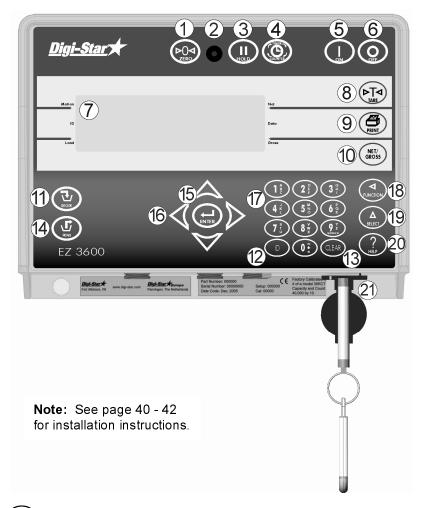


TMR Tracker is a full-featured Windows based feed management system. TMR tracker also offers operators additional management tools including: Operator control, pen review, online feed data exchange with nutritionists, ingredient tracking and numerous reports. TMR Tracker is an indispensable management tool for forward thinking operations.

For additional information go to www.tmrtracker.com

INDICATOR OVERVIEW

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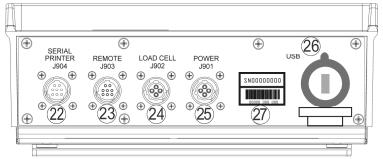


- (1) $(\stackrel{\bullet}{\underset{z \in \mathsf{RO}}{\bullet}} \text{ press and hold for 3 seconds to zero balance.}$
- 2 <u>Pre-Alarm Light</u> flashes and alarm sounds when weight is within preset limit.
- (3) $(\prod_{H \in D})$ holds displayed weight when moving machine.
- 4 $\left(\begin{array}{c} \left(\begin{array}{c} 0 \\ 0 \end{array} \right) \\ 0 \end{array} \right)$ selects timer or rotation counter feature.
- 5 (-1) turns indicator on.
- \bigcirc \bigcirc turns indicator off.
- Display Window Displays current actions.

8 (PTA) – temporary zero (Net Mode).

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- 9 () records to memory or prints displayed weight.
- (In the second secon
- $(1) \quad (\mathbf{R}) = \mathsf{selects recipes in memory.}$
- ID enters user number and feeding number. Any number can be used for user until number assigned by feed management software.
- (13 CLEAR) clear (backspace).
- (5) $(\underset{\text{INTER}}{\longleftarrow})$ accepts change or proceeds to next item.
- ¹⁶ <u>Directional Arrows</u> moves through list of information.
- Meypad inputs numbers or letters.
- (18) (19) performs task displayed by select.
- 19 $\begin{pmatrix} \Delta \\ select \end{pmatrix}$ displays additional tasks.
- (2) $(?)_{HELP}$ press for additional information.
- USB Drive transfers data between computer and indicator.



- Serial/Printer Port optional, communicate with computer and other digital input/output devices.
- ²³ <u>Remote Port</u> optional remote display.
- 24 Load Cell Port for J-Box cord.
- 25 <u>Power Port</u>- for Power Cord.
- ²⁶ <u>USB Drive Port</u>– for USB Drive insertion. Insert USB Drive to upload/download data.
- 2 Serial Number Plate Serial Number of indicator.

See pages 40-42 for installation instructions.

<u>Digi-Star</u>★____ OPERATION

Turn on Indicator





1. Enter user number if required.



Zero Balance Indicator



- 1. Press and hold (POT) 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

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RECIPE

EZ 3600

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

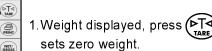
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2°) 3°)

(5[%])(6⁴/₁)

 $\begin{array}{c}
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\mathbf{9}_{\mathbf{x}}^{\mathbf{1}} \\
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\mathbf{0}_{\mathbf{x}}^{\mathbf{1}} \\
\mathbf{0}_{\mathbf{0}}^{\mathbf{1}} \\
\mathbf{0}_{\mathbf{0}}^{\mathbf$





2. Display reads zero and flashing arrow on side of display points to NET.

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 - 3. Add more weight, display reads added weight value.



4. To show total of original weight of 4000 pounds plus added 300 pounds, press (NET/s), flashing arrow points GROSS.

Operation



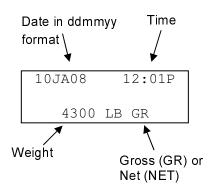
5. Press (Ress), 300 pounds is displayed and flashing arrow points NET.

Print Key

Note: Optional serial port must be installed for printing.



1. Press (Indicator sends data to printer or PC.



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DATA TRANSFER

USB Drive Mode



RF DataLink Modes

To upload data: 1.Insert USB Drive.

2. Press

Note: If indicator displays uncompleted data in memory, press (T) to overwrite uncompleted data.

Remove USB Drive when transfer complete.

To download data: Insert USB Drive, indicator automatically sends data to USB Drive. Remove USB Drive.

Operation	Message	
DataLink connects with indicator	$\leftarrow PL \rightarrow$	
DataLink sends data to indicator	DL←IN	
Indicator receives data	RLL FEED LINES RECIVED -PRESS RECIPE KEY TO CONTINUE	
Data compete, indicator sends data to DataLink	←PĽ→	
Data sending	DL→OUT	
To send data to PC if operator does not complete all feeding at end of		
feeding schedule. Press $\begin{pmatrix} \Delta \\ select \end{pmatrix}$ until	EZ→PC	
display shows message (right column),		
press $\begin{pmatrix} \mathbf{v} \\ \mathbf{r} \\ \mathbf{r} \end{pmatrix}$ to perform transfer.		
The indicator marks uncompleted data as completed and sends feeding data to DataLink.		

Note: After sending, uncompleted data is erased.

Note: Indicator may also be manually programmed, see page 25 for *instructions*.

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Indicator Data Formats

Data sent to indicator sent in two formats:

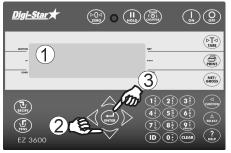
Complete Loads Mode: Each load built by PC software. It assigns pens to recipe and builds exact load for pens.

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. Indicator scrolls feeding number, first recipe and pen number.
- 2. Press A and V to find desired recipe.
- 3. Desired recipe in display line, press (I).



Resize Recipe Weight

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Indicator gives option to resize pen load weight.

1. Enter new weight or keep original weight.

2. Press

Note: Press (A) 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

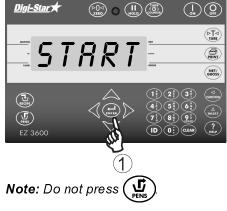


- 1. First ingredient weight flashes in display. Load ingredient.
- 2. Weight approaches zero, alarm will flash and sound.
- 3. a. Manual Advance: Weight reached, press (FINTER) to accept. Press (FINTER) again to start next ingredient.

or

 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 (Press (ENTER) again to start next pen.

or

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

Last pen complete, indicator displays "*RECIPE COMPLETE*".

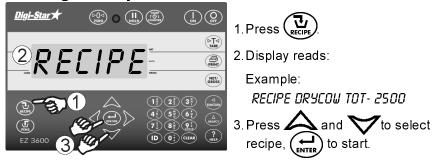
Note:

If different pen needed press \bigwedge or \bigvee to find desired pen. Press (\prod_{ENTER}) for pen delivery.

RECIPE AND PEN LIST MODE

Starting a Recipe

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Resize Recipe Weight



Note: Indicator warns resized amount over capacity, press (RECIPE) to override. 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.

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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 (FI). Press (FI) to start next ingredient.

or

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

Unloading Pens



- 1. When ingredient loading complete, display reads *"RECIPE COMPLETE"*. Press (). Indicator displays unloading pens.
- 4. Pen and weight displayed, begin unloading to pen.
- 5. a. Manual Advance: Weight reached, press (INTER) to accept. Press (INTER) again to start next pen.

or

- b. Auto Advance: When preset weight reached, indicator advances to next pen.
- 6. When unloading is complete press (The start next recipe.

ADVANCED COMMANDS

Unload Partial Pens

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1. Press V 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 21 for Pen Tolerance setup.

Go Back to Skipped Ingredient



1. Press \bigtriangleup or \bigtriangledown to move back. 2. Press $\fbox{1}$.

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





2. Enter user number.



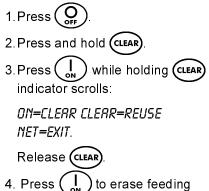
4. Enter feeding number (1-9).



memory.

Clear Indicator Memory





Re-Use Recipe/Pen Data



- 1. Indicator O
- 2. Press and hold (CLEAR).
- 3. Press , while holding CLEAR indicator scrolls:

ON=CLEAR CLEAR=REUSE NET=EXIT

Release (LEAR)

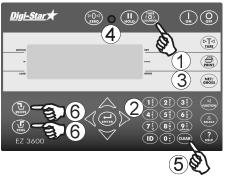
4. Press (LEAR) again to re-use recipe and pen data.

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 USB Drive before re-using recipe and pen data stored.

Note: For continuous re-use, set D.A.N. 466 to on. See page 37.

Mix Timer

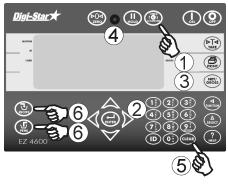
The mix timer allows the operator to set a timer to alert the operator when the mixing is completed. This can be manually entered or entered as part of the recipe using the TMR TRACKER or other software package.



- 1. Press
- 2. Use the numeric keypad to enter the amount of time.
- 3 Press (10)
- The Mix Timer will begin to count down. When it reaches zero, the alarm light and buzzer will turn on.
- 5. Press CLEAR to enter the weighing mode.
- Press the () or () key to reenter the batching mode.

<u>Digi-Star</u>★____ Rotation Counter

The rotational counter is used much like the timer. It allows the indicator to count the number of revolutions of a mixer shaft and notifies the operator when a set count is reached.



Drive Ratio

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



1 Press (10)

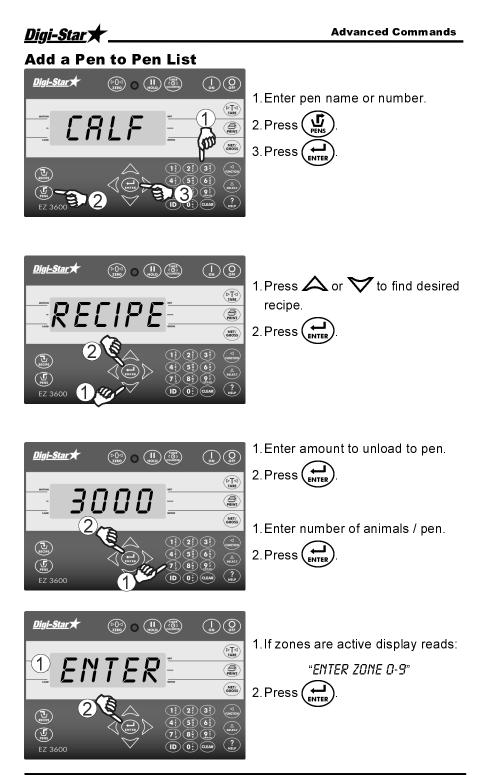
2. Use the numeric keypad to enter the number of rotations.

3. Press

- 4. The Rotation Counter will begin to count down. when the counter has reached zero, the alarm light and buzzer will turn on.
- 5. Press (TEAR) to turn off the alarm and enter the weighing mode.
- 6. Press the () or () key to reenter the batching mode.

1. Enter **422** and press (A) to enter drive ratio value.

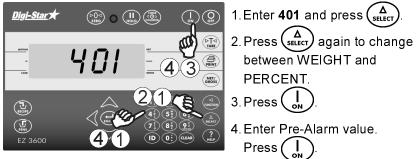




<u>Digi-Star</u> COMMONLY USED DIRECT ACCESS NUMBERS (D.A.N.)

Pre-Alarm

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



Auto Ingredient / Manual

Pen Advance

Ingredients automatically advance, Pens manually advance.



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 (Δ)
- 2. Press $\begin{pmatrix} \Delta \\ select \end{pmatrix}$ to choose tolerance method.
- 3. Press (ENTER) to save.
- To change percentage, press
 A. To change percentage, press
 Shown. until desired value is
 shown. To change weight, enter
 value.
- 5. Press (Inter) 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 $\begin{pmatrix} \Delta \\ SELECT \end{pmatrix}$. Press $\begin{pmatrix} \Delta \\ SELECT \end{pmatrix}$ again to choose weight or percent.
- 2. Press (, screen will display "PENTOL".
- 3. Enter weight or percentage desired.

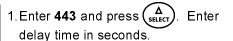
4. Press (

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Delay Time

Changes time indicator waits before automatically advancing to next feedline.



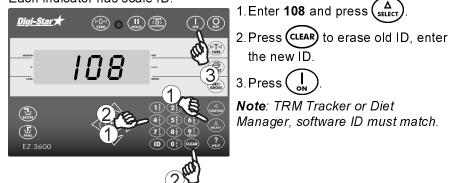


2. Press (Inter) to save.

Note: Set to 0 prevents automatic advance.

Scale ID or Truck ID

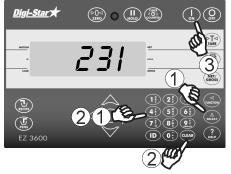
Each indicator has scale ID.



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Radio Number

Used with cab control option.



- 1. Enter **231** and press $\begin{pmatrix} \Delta \\ SELECT \end{pmatrix}$
- 2. Press (CLEAR) to erase number, enter new number.

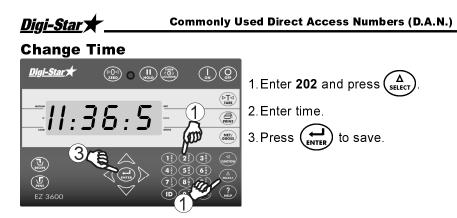
3. Press (].

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

Resize Option

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





Change Date



- 1. Enter **204** and press $\begin{pmatrix} \Delta \\ sellect \end{pmatrix}$.
- 2. Enter date in format: ddmmyy
- 3. Press (Internet) to save.

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

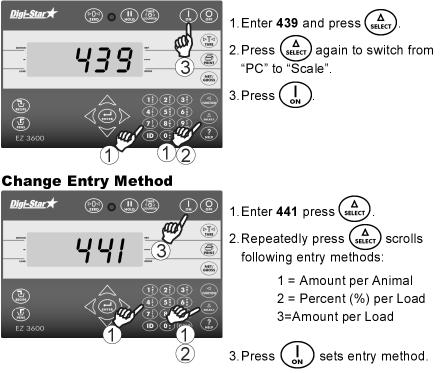
Enter ingredient amounts in (%). Indicator calculates amounts for each ingredient. Total of all ingredients must equal 100% in this mode.

Amount Per Load

Allows entry of ingredient amounts required per load.

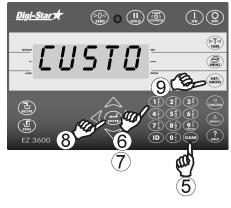
Switch to Manual

Programming



Ingredient Re-Name





Ingredient names are listed in a standard table and can be changed using the following 9 steps.

1.Repeatedly press (A Until INGRNIA displays.

2. Press

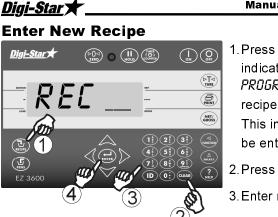
3. Press , shows ingredient.

- 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.

Print Ingredient Names



- 1. Press (H) displays first ingredient.
- 2. Press (Prints total accumulations for this ingredient.
- 3. Press again prints accumulations for all ingredients currently used in all recipes.
- Press Press again prints names for all ingredients. Ingredients not used by recipe, show unused.



- 1. Press and hold (United and the second se indicator beeps and displays PROGRIN then displays either first recipe programmed or REC This indicates recipe number can be entered.
- 2. Press (CLEAR
- 3. Enter recipe number.
- enters number. 4. Press (



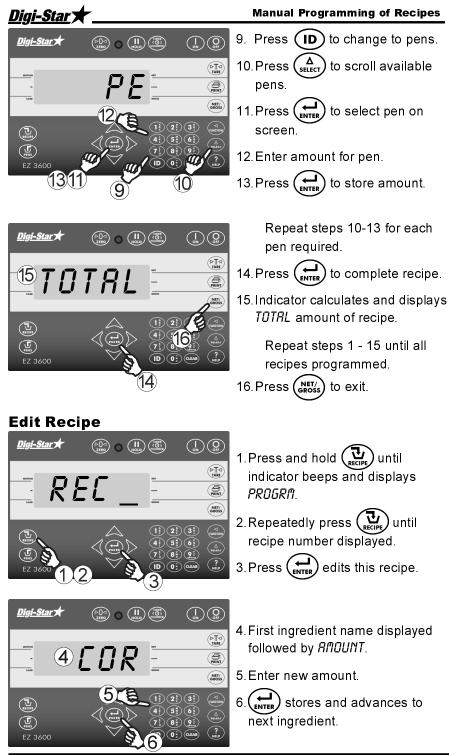
5. Press (A SELECT scrolls available ingredients.



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.

- 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.





- 7. Press $\begin{pmatrix} \mathbf{A} \\ \mathbf{selecr} \end{pmatrix}$ to return to previous ingredient.
- Repeat steps 5-6 for each feedline change.
- 8. Press and hold (The press and hold (The press and hold (The present a new ingredient. This will insert just before the current ingredient on the screen.

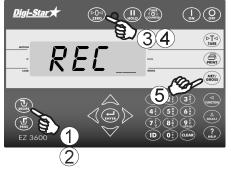


- 9. Press **(D)** to switch between ingredients and pens.
- 10. Press $\begin{pmatrix} \Delta \\ \text{selecr} \end{pmatrix}$ to scroll available ingredients or pens.
- 11. Press (to select ingredient or pen.
- 12. Enter amount required.
- 13. Press (ENTER) to store amount.



- 14. Press and hold (▶0२) to erase an ingredient. Message ZERD TD ERR5E scrolls.
- 15. Press bdd to erase the current ingredient or pen displayed on the screen.
- 16. Press (ROSS) to exit.

Erase A Recipe



- 1. Press and hold () until indicator beeps and displays *PROGRAM* followed by first recipe number.
- 2. Repeatedly press () until desired recipe number displayed.
- 3. Press and hold PRESS ZERD TO ERRSE RECIPE OR NET/GRDSS TO EXIT scrolls.

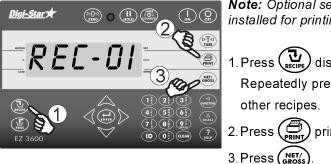
4. Press (PO) erases recipe. 5. Press (PROS) exits.

Review A Recipe



- 1.Repeatedly press (Until recipe shown.
- 2. Press b displays each feedline, weight or % and total for recipe.
- 3. Press (Ress) exits.

Printing Single Recipe



Note: Optional serial port must be installed for printing.

-) displays first recipe. Repeatedly press $\left(\underbrace{\mathbf{U}}_{\text{PECIPE}} \right)$ displays
- 2. Press (, prints recipe.

Printing All Recipes



RUNNING A RECIPE

Using Amount Per Animal



- 1. Repeatedly press (Lecipe) until recipe displayed.
- 2. Press () to accept recipe.
- 3. Indicator displays LORDING 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.

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

(See page 20 for auto advance)





- 9. After last ingredient loaded, indicator displays *STRRT DELIVERIES*.
- 10. Indicator displays pen to unload and how much to unload. As pen is unloaded indicator counts down to <u>ze</u>ro.
- 11. Press (to advance to next pen.



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

OTHER FUNCTIONS

Hold

Digi-Star

Hold mode prevents displayed weight from changing while moving.



1. Press (II) hold.
2. Press (II) returns indicator to
normal.

If weight is added while in hold mode, press (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 (Junction) dims backlight.

MENUS AND CALIBRATION

Enter D.A.N. and press (A) to display setting name. Press (A) again to change option value.

Press (I) to save setting.

SETTING [display]	D.A.N NO.	OPTIONS [d BOLD=DE		DESCRIPTION
MENU 1.	BASIC	FEATURES	IN MOST	INDICATORS
LANGUAGE (LRNGRG)	101	English Dutch French German Italian Portuguese Spanish Danish Hungarian Spanish	(ENGLSH) (NEDERL) (FRANCS) (DEUTSH) (ITAL) (ITAL) (PORT) (ESPAN) (DANSK) (NAGYAR) (VESTA)	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 (SCRLID)	108	NEW EZ		Identity of scale location (truck id or Mixer number).
MENU 2. CLO	CK, PR	INTER, COM	MUNICAT	ION & ESTIMATED
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 (DRTE 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-ddmoyyy.		Select date format
DATE (DRTE)	204	Enter XXXXX	<	Select key changes date - function key chooses mm/dd/yy.

<u>Digi-Star</u>			Menus and Calibration
SETTING [display]	D.A.N NO.	BOLD=DEFAULT	DESCRIPTION
MEDIA (<i>nedir</i> i)	217	USB DDL SER PC	Select media type for data storage.
SCALE NUMBER (SCL NO)	231		Select scale number for cab control communication
REMOTE DISPLAY (RIIDISP)	234		Select type of remote display
MEN	NU 3. S	CALE CALIBRATION S	SETTINGS
DISPLAY UNIT (LB-KG)	303	L B /KG	Display pounds -lb or kilograms -kg
MIMIC TYREL (TCB00)	321	OFF/ON	If ON -records preset weights like a TYREL TCX-1300 indicator. Indicator Tracks gross weight while batching.
MENU 4. PRESE	T BAT	CHING & ROTATION (COUNTER FEATURES
PRE ALARM (P MTHD) & (P-RLM)	401	WEIGHT PERCNT	Select weight or percentage method, then enter a value to activate an early warning that indicator is reaching the preset.
BUZZER (BUZZER)	404	1-4, ON /OFF	ALARM BUZZER -allows user to turn off alarm horn.
TIMER/ COUNTER (TMRCTR)	421	REV TIME	Select time or mixer revolutions to decrement mix timer/counter.
DRIVE RATIO (DRRTID)	422	0001.00	Enter the number of input pulses that equal 1 mixer revolution.
MANUAL PROGRAMMING (PRD5RRfl)	439	PC/SCALE	PC: Requires a USB Drive with programming. Scale: Allows user to manually program indicator.
ENTRY METHOD (E MTHD)	441	1,2,3	Select batch 1- amount/animal 2-percent/load 3- amount/load
TOLERANCE (TOLER)	442	OFF ,.5,1-5,7,10	Select tolerance weight percentage to accept ingredient.

Digi-Star			Menus and Calibration
SETTING [display]	D.A.N NO	OPTIONS [displayed] BOLD=DEFAULT	DESCRIPTION
INGR. ADVANCE DELAY (<i>DELRY</i>)	443	MANUAL , 1-3,5,7, 10,20,30,60	Select seconds to delay before advancing to next ingredient.
FORCE USER ID (USERID)	446	ON/ OFF	If ON -operator must enter user ID to use indicator.
RESIZE RECIPE (RESIZE)	448	on /off	If ON -operator can change recipe size.
RECIPE TOTAL (<i>RECTOT</i>)	451	ON/OFF	Selects total amount to be displayed when starting recipe.
TOLER OVER LOCK (DVERLK)	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	455	ON/OFF	If ON -displays all incomplete recipes or enable if indicator is stationary mixer/batch when using Datalink.
AUTO START PENS (RUTPEN)	458	ON/OFF	If ON -starts pens list after recipe is loaded in list mode format.
MANUAL PEN ADVANCE (MRNPEN)	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 (<i>PE</i> N 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.
		CALIBRATION	
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

<u>Digi-Star</u>		R	e-Calibrating Your Scale
SETTING [display]	D.A.N NO.	OPTIONS [displayed] BOLD=DEFAULT	DESCRIPTION
CALIBRATION NUMBER ([RL]	872		Weight displayed at 0.4mV/V for these load cells

RE-CALIBRATING YOUR SCALE

To re-calibrate your scale and make it even more accurate, document at least 3 to 6 loads of varying sizes and measure the actual weight of all loads on a certified scale.

Reading Too High

If the Indicator is reading higher than the certified scale, then the calibration number is high and should be decreased proportionally.

Reading Too Low

If the Indicator is reading lower than the certified scale, then the calibration number is low and should be increased proportionally.

Get your Calibration

Number



1. Enter **872** and press (A) calibration (CAL) number will display. Example CAL = 24280.

TOTAL CERTIFIED WEIGHT X CURRENT CAL NUMBER=NEW CAL NUMBER TOTAL INDICATOR WEIGHT

<u>Digi-Star</u>

Using the previous example your results would be:

 $\frac{205030}{203400}$ X 24280 = 24475

Enter New Calibration

Number



Change Setup and Calibration Numbers



- Enter 872 and press <u>SELECT</u>
 Existing calibration number will display.
- 2. Use number pad to type new number and press (

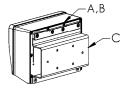
For best results, unload on level ground. Make sure no grain is lost in trucking the grain to a certified scale.

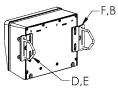
- 1. Enter **871** and press $\begin{pmatrix} \Delta \\ \text{SELECT} \end{pmatrix}$.
- 2. Indicator shows *SETUP* briefly then show a 6 digit number. Enter new number.
- 3. Press

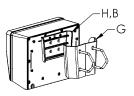
Follow same procedure changes calibration number except use **872**.

INSTALLATION

Indicator Mounting





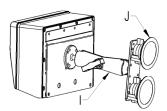


RAIL MOUNT

WING MOUNT

WEDGE MOUNT

KEY	PART NUMBER	DESCRIPTION
Α	404353	BRACKET-EZ3 PLASTIC RAIL *
В	403780	SCR-#10 X 5/8 FHSTS BLACK ZP
С	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

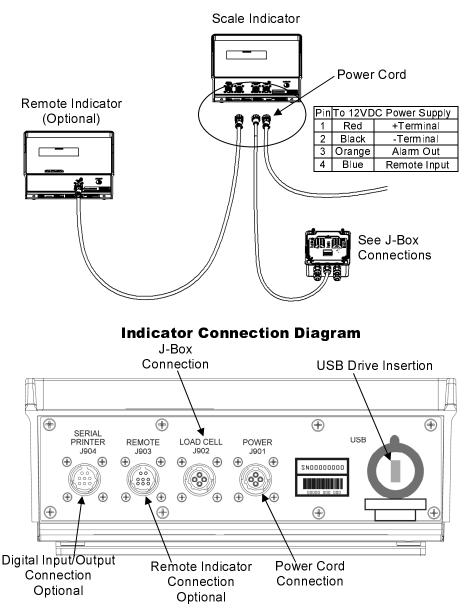


RAM MOUNT

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

Cable Connection

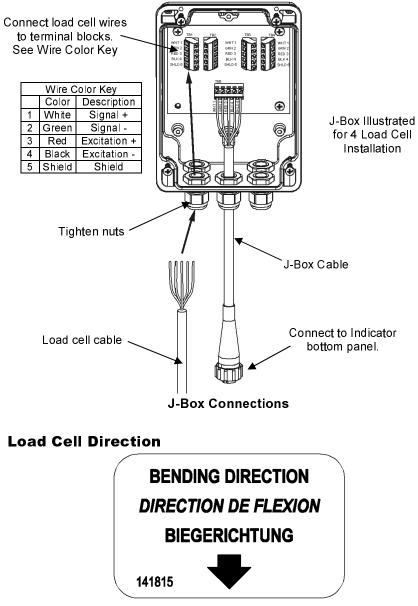
Digi-Star



Bottom Panel Cable Connections

Connect Load Cells To J-Box

Digi-Stary



Observe direction of arrow when installing load cell.

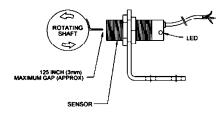
OPTIONAL EQUIPMENT

Cab Control (Wireless)

Digi-Star



Rotation Counter Sensor



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

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



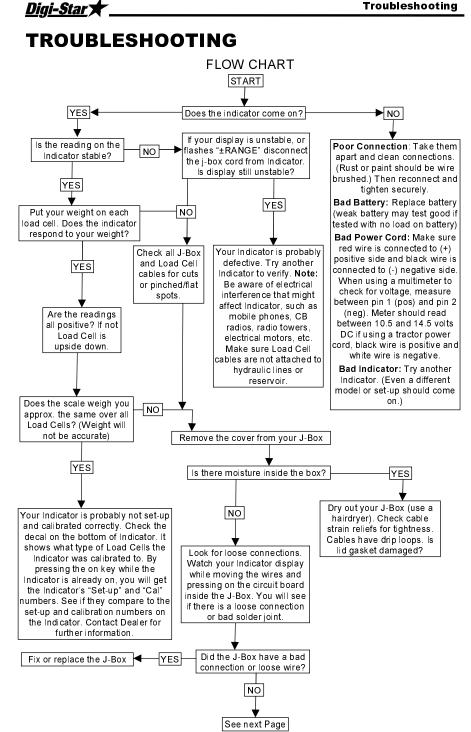
RD440 small remote display with 1" high numbers

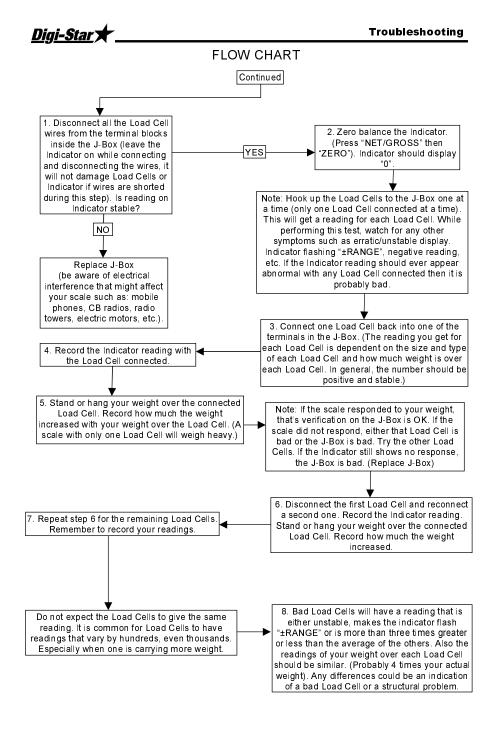




RD2400V backlit remote display with 1.7" high numbers

RD4000 LED remote display with 4" high numbers







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 +RRNGE or -RRNGE 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 selfcalibration, or if any error conditions such as *+RRNGE*, *DVRCRP* or *DVRFLW*. 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

Digi-Star 7

- 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 $\begin{pmatrix} \Delta \\ \text{SELECT} \end{pmatrix}$. Press $\begin{pmatrix} I \\ \text{ON} \end{pmatrix}$ to accept.