



**SHORT FORM
SETUP & CALIBRATION
FOR EZ INDICATORS**

**DIGI-STAR
790 WEST ROCKWELL AVENUE
FORT ATKINSON, WISCONSIN 53538
PHONE: 920-563-1400
Fax: 920-563-9721**

www.digi-star.com

WARNING!

THIS INDICATOR WAS CALIBRATED AT THE FACTORY TO WEIGH ACCURATELY WITH YOUR SYSTEM.

ADDITIONAL CALIBRATION IS NOT NECESSARY UNDER NORMAL CONDITIONS.

The **Short Form Setup & Calibration** procedure allows you to change the “SETUP” and “CAL” numbers of the indicator. You may want to perform this procedure if;

1. The indicator is being connected to different load cells.

or

2. You want to adjust the calibration to match another scale system.

PLEASE NOTE: Do not attempt to calibrate the scale if the indicator is not reading stable weights. The calibration procedure **will not fix** instability, inconsistencies, or flashing “RANGE” messages.

Before continuing, first write down the current “SETUP” and “CAL” numbers of your EZ indicator. These numbers are displayed during the “Self Test”. To run the **Self Test**:

With the indicator already ON, press the [ON] key to start the Self Test. Press the [ON] key to “pause” the Self Test while numbers are displayed. Press [ON] again to “resume”.

SETUP # _____ CAL# _____

Keep this information for future reference.

1. Adjust EZ Indicator to Match Another Scale

Sometimes two different scales are used to weigh the same load. When this is done, the weight measured by each scale may not be the same. This can be caused by one or both of the two scales being slightly out of calibration. This indicator has the ability to match any other scale, even if that scale is uncalibrated.

To match your EZ scale (*Scale A*) to another scale (*Scale B*) you must determine the **Calibration Multiplier**. To do this, place a load on *Scale A* (*feed wagon, etc...*) and write down the weight displayed. Repeat several times to determine the *average weight*. Next, place the same load on *Scale B* and again write down the weight displayed.

Repeat several times to determine the *average weight*. Use the following formula to determine the **Calibration Multiplier** for the EZ’s “CAL” number:

It is important to use an average of several weights before calibrating the scale.

Scale Matching Example:

Original
SETUP# 127060
CAL# 23980

	1 trial	2 trial	3 trial	
Scale B	30,000	30,580	28,000	
Scale A	29,440	29,800	27,500	
B ÷ A	1.020 + 1.026 + 1.018 = 3.064			
	3.064 ÷ 3 trials = 1.021 Cal. Multiplier			

New EZ CAL# = Orig. EZ CAL# x Cal. Multiplier
24484 = 23980 x 1.021

You should not modify your “SETUP” number. Only your “CAL” number.

Scale Information Sheet:

Original
SETUP# _____
CAL# _____

Scale Matching Work Sheet:

	1 trial	2 trial	3 trial	
Scale B				
Scale A				
B ÷ A	+ + = “x”			
	“x” ÷ 3 trials = Cal. Multiplier			

New CAL# = Old CAL# x Cal Multiplier
_____ = _____ x _____

Follow the instructions “To change the Setup / Calibration Numbers” shown below.

2. Connecting EZ Indicator to Other Load Cells

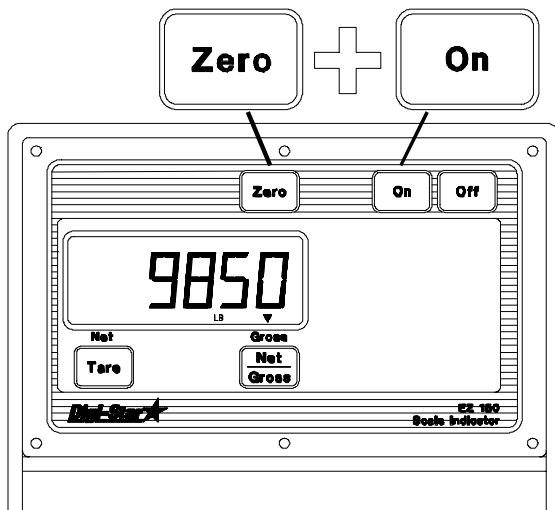
You will need the *number and type of loadcells* used in the new scale system. You will also need the current “SETUP” and “CAL” as described above. Once you have written down this information, contact your nearest *Scale Service Center* for new “SETUP” and “CAL” numbers.

Scale Information Sheet:	
Load Cells: Number=_____	
Type=_____	Output = _____ mV/V
Original	New
SETUP# _____	SETUP# _____

Follow the instructions “To Change the Setup / Calibration Numbers” shown below.

To Change the Setup & Calibration Numbers

Press and hold the [ZERO] key, then press the [ON] key, to enter Short Form Setup & Calibration.



The first message displayed is “SETUP”.

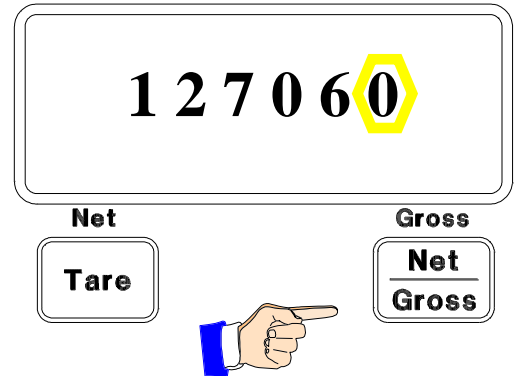
SETUP

Next, the actual “SETUP” number is displayed.

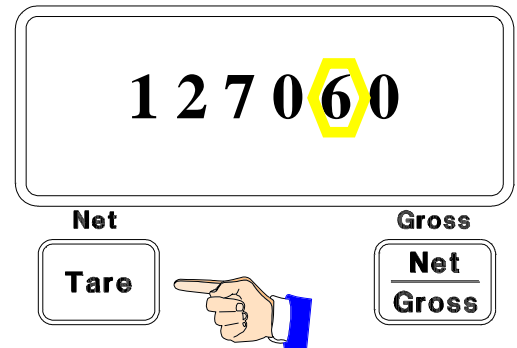
1 2 7 0 6 0

If the correct “SETUP” number is displayed, press [ON] to advance to the “CAL” number.

Step 1) Press the [NET/GROSS] key to cause the “flashing” digit to count upward.



Step 2) Press the [TARE] key to select which digit is flashing.



When the correct “SETUP” number is displayed, press the [ON] key to advance to the “CAL” number.

This displays the “CAL” message,

CAL

followed by the “CAL” number.

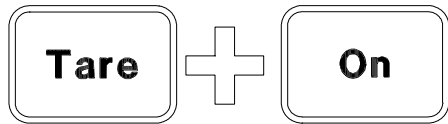
23980

The “CAL” number is not a weight. It is a reference value the indicator uses to determine the weight. This number directly affects the accuracy of the scale system.

Change the “**CAL**” number using the same method described in Steps 1& 2. When the display shows the correct number, press the [ON] key. This causes the number to be stored permanently in the indicator and returns the indicator to the *weighing mode*.

**To Exit the *Short Form*
Setup & Calibration at Anytime**

Press and hold the [TARE] key, then press the [ON] key.



NOTE: *Press the [ZERO] key for additional help information during Setup and Calibration.*

3 YEAR WARRANTY - ELECTRONIC SCALE PRODUCTS

GUARANTEE

Digi-Star warrants for a period of 3 years from the date of manufacture, to correct by repair or replacement, at Digi-Star's option, any defect in material or workmanship in any part of electronic scale products (unless otherwise specified on selected products). In the event of replacement, Digi-Star's sole obligation shall be to provide replacement product or parts, FOB. Effective for product manufactured after January 1, 1991.

LIMITATIONS

This Limited Warranty does not apply to electronic scale products, accessories or parts not manufactured by Digi-Star, except to the extent of the warranty given by the actual manufacturer thereof. Furthermore, this warranty shall not apply to:

1. Parts or products requiring replacement due to normal wear and tear, or due to improper installation, abuse, neglect or required maintenance, accident, fire, lightning or other acts of God.
2. Equipment that has been repaired or modified by person(s) not authorized by Digi-Star, which in Digi-Star's judgement has affected the performance or reliability.

Digi-Star does not warrant any part or product to meet local, municipal, state, provincial or national laws and/or regulations.

EXCLUSION OF OTHER WARRANTIES AND REMEDIES

Except where such disclaimers and exclusions are specifically prohibited by applicable law, THE FOREGOING SETS FORTH THE ONLY GUARANTEE OR WARRANTY APPLICABLE TO THIS TRANSACTION, AND SUCH WARRANTY IS GIVEN EXPRESSLY AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ALL SUCH IMPLIED WARRANTIES WHICH EXCEED OR DIFFER FROM THE WARRANTY SET FORTH HEREIN ARE HEREBY DISCLAIMED BY DIGI-STAR. Oral statements about the products covered by this transaction made by Digi-Star's representatives, or statements contained in Digi-Star's general advertising, pamphlets, brochures, or other printed matter, shall not constitute warranties. Except where such limitations and exclusions are specifically prohibited by applicable law, the SOLE AND EXCLUSIVE REMEDY AGAINST DIGI-STAR SHALL BE FOR THE REPAIR OR REPLACEMENT OF DEFECTIVE PARTS AS PROVIDED, AND NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL, SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSONS OR PROPERTY, OR AN OTHER LOSS) SHALL BE AVAILABLE. This exclusive remedy shall not be deemed to have failed of its essential purpose as long as Digi-Star is willing and able to repair or replace defective parts in the prescribed manner.

PRODUCT CHANGES AND IMPROVEMENTS

We reserve the right to make changes in design, to add improvements to or otherwise modify our electronic scale products without incurring an obligation on goods previously purchased and to discontinue supplying any parts listed when the demand does not warrant production.

DIGI-STAR
790 West Rockwell Avenue
Fort Atkinson, WI 53538
920-563-1400

AUTHORIZED WARRANTY CENTERS