GT400
Operators Manual
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**D3831 Rev B**  
**GT400 User's Manual**
TECHNICAL SPECIFICATIONS

SIZE
7.33" long x 5.25" high x 3.38" wide (186mm x 133mm x 85mm)

WEIGHT
2 lbs (.91 Kg)

HELP MESSAGES
Context sensitive help messages in 10 languages
Long messages are scrolled

TRANSDUCER EXCITATION
8 volts D.C. Nominal
Capable of driving eight 350 Ohms transducers
Short circuit proof

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

SPAN ACCURACY
±(.1% + .005%/ °F) or (.1% + 0.009% °C) full scale ± 1 output count

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

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.

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

COOLER REQUIRED
Via front panel

LOW BATTERY WARNING
Enabled at 10.5V nominal

POUND/KILOGRAM
Selectable

DISPLAY
STD EZ 6 Digit LCD 1.0. 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%/ °F.) or (0.009% °C) full scale ± 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)

NON-VOLATILE MEMORY
EEPROM for balance

OPERATING TEMP
-29°C to 60°C -20°F to 140°F
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.

Scale Indicator
Disconnect all cords
INDICATOR OVERVIEW

1. ZERO/BALANCE operation when the scale is empty.
2. start unloading and stop unloading, indicator displays amount unloaded, stores or prints data to serial port when complete.
3. edit name and display weight accumulation value.
4. turns the unit on and off.
5. Net – arrow flashes in net mode.
6. Print – arrow flashes when printing or saving to Data-Down-Loader.
8. Unload – arrow flashes in unload mode.

Note: See page 17 for installation instructions.
9 - Remote Port – Optional, for remote display.

10 - Power Cord Connection – +12 VDC.

11 - Load Cell Connection – Connect cable from the J-Box.

12 - Serial/J905 – Optional, to communicate with computer and other digital Input/Output devices.

<table>
<thead>
<tr>
<th>Pin</th>
<th>J905 Connector Signals</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>+5VDC</td>
</tr>
<tr>
<td>2</td>
<td>Com #1 Out (Tx) - Computer</td>
</tr>
<tr>
<td>3</td>
<td>Com #1 In (Rx) - DDL &amp; Computer</td>
</tr>
<tr>
<td>4</td>
<td>Com #2 Out (Tx) - Printer</td>
</tr>
<tr>
<td>5</td>
<td>+12 VDC</td>
</tr>
<tr>
<td>6</td>
<td>Gnd – Available for any Com device</td>
</tr>
<tr>
<td>7</td>
<td>Com #2 In (Rx)</td>
</tr>
<tr>
<td>8</td>
<td>Ground</td>
</tr>
</tbody>
</table>
OPERATION

Turn on Indicator

1. Press \( \text{ON/OFF} \)

Zero Balance Indicator

1. Press and hold \( \text{ON/OFF} \) for 3 seconds to zero balance indicator.
2. Flashing arrow points to gross next to the display window, indicator ready to weigh.
Loading and Unloading

Note: For best accuracy park scale on level surface and allow weight reading to stabilize before Zero balancing the scale and before beginning to unload.

1. Load cart.


3. Unload weight from cart. Display shows amount unloaded.

4. Press \textit{START STOP} after unloading is complete. Data is automatically added to accumulator and saved to printer or DDL (See print format section, page 8); a flashing arrow will point to PRINT.

Note: Print and accumulator features are available with Serial Option only.

5. Indicator displays GROSS weight remaining on scale.
Field ID

6 character identification value stored in internal memory of indicator to identify field being unloaded, truck being loaded or other information.

1. Press $\text{FIELD}$. $\text{FIELD}$ is displayed and a flashing cursor or character is displayed in the first position.

2. Press $\text{FIELD}$ to scroll available characters. Hold $\text{FIELD}$ for 4 seconds to increase second scroll rate.

3. Press $\text{FIELD}$ to scroll backwards through available characters. Press $\text{START}$ to move to the next character.

4. Press $\text{ON/OFF}$ to accept and save.
Print Formats

Three print formats are available to output PRTACC value and FIELD ID to DDL or printer.

PRTAC1: FIELD ID, 4856, GR, 274575, PA, 05FE08, 1:44P
PRTAC2: FIELD ID, 05FE08, 1:44P
4856, GR, 274575, PA

Includes following information:
• Field ID
• Weight
• Weight Tag (NE, GR, Load/Unload)
• Accumulated Weight
• Print Accumulator Tag
• Date and Time

PRTAC3: FIELD3, 5977, LB, ,GR, 309719, PA, 05FE08, 4:42P

Includes above and adds “Unit of Measure”.

See “Menus and Calibration” (see page 11) to change print format (PRTFMT).
Saving/Printing Gross Weights

(Optional w/ Serial Option)

1. Press and hold \( \text{▲} \) three seconds to send weight to serial port.

Each time this command is executed the value displayed is added to the “PRTACC” which is the accumulated weight. Weight is accumulated until cleared.

Turning Off the Indicator

1. Press \( \text{ON/OFF} \) until “BYE” is displayed.
WEIGHING ERRORS

Over-Capacity Limit (OVRCAP)
The display shows the message "OVRCAP" if the weight on the scale system exceeds the capacity limit. The capacity value is entered in SETUP to warn of overloading the scale system.

Over Range (+RANGE)
The display shows the message "+RANGE" if the weight on the scale system exceeds the maximum weight measurable by the scale system. The over range value is always the system's maximum A/D counts multiplied by the scaling factor. The actual weight at which over range occurs depends on the calibration, zero, and display count size.

Under Range (-RANGE)
The display shows the message "-RANGE" if the weight on the scale system is less than the minimum weight measurable by the scale system. The under range value is always the system's minimum A/D counts multiplied by the scaling factor. The actual weight at which under range occurs will depend on the calibration, zero, and display count size.

Low Battery Indication (LO BAT)
If the supply voltage drops below the (10.5 Volts), the message "RECHARGE BATTERY - TURNING OFF" and "LO BAT" will periodically show on the display to alert the operator of the low battery condition.

RUN SELF TEST

1. Press FIELD 3 seconds until the LB symbol starts to blink. Release.
2. Press ON/OFF to start the Self Test.
**MENUS AND CALIBRATION**

The indicator has optional settings that allow flexibility in the way that the scale is used and data is collected.

**Changing Options Using Long Form Setup**

Enter Long Form Setup by holding \( \text{FIELD} \) and \( \text{ON/OFF} \) for three seconds.

Press \( \text{FIELD} \) to advance to desired menu 1, 2, 3, 4, CALIB, or EXIT, press \( \text{ON/OFF} \) to select.

Press \( \text{ON/OFF} \) to advance to desired setting.

Press \( \text{FIELD} \) to advance setting to desired option.

Press \( \text{ON/OFF} \) to save setting option and advance to next setting.

Hold \( \text{START/STOP} \) and press \( \text{ON/OFF} \) to return to normal indicator operation.

Default settings from the factory vary with options and due to customer preferences.

<table>
<thead>
<tr>
<th>SETTING [display]</th>
<th>OPTIONS [displayed]</th>
<th>BOLD=DEFAULT</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MENU 1. BASIC FEATURES IN MOST INDICATORS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>LANGUAGE (LANGAG)</strong></td>
<td><strong>English</strong></td>
<td><strong>Dutch</strong></td>
<td><strong>French</strong></td>
</tr>
<tr>
<td>( \text{ENGLSH} )</td>
<td>( \text{NEDERL} )</td>
<td>( \text{FRANC} )</td>
<td>( \text{DEUTSH} )</td>
</tr>
<tr>
<td>Select language to be displayed.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DISPLAY RATE (0 RATE)</strong></td>
<td>( 1,2,3,4 )</td>
<td>Update display times per second.</td>
<td></td>
</tr>
<tr>
<td><strong>FIELD ID (FIELD)</strong></td>
<td><strong>NEW EZ</strong></td>
<td>Identity of FIELD location, Truck ID or Grain Cart ID.</td>
<td></td>
</tr>
<tr>
<td>SETTING</td>
<td>OPTIONS [displayed]</td>
<td>DESCRIPTION</td>
<td></td>
</tr>
<tr>
<td>-------------------------------</td>
<td>---------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td><strong>TIME FORMAT</strong></td>
<td></td>
<td><strong>BOLD=DEFAULT</strong></td>
<td></td>
</tr>
<tr>
<td><strong>TIME</strong> (time f)</td>
<td>24 HR AM/PM</td>
<td>Select time format -AM/PM or 24 hour</td>
<td></td>
</tr>
</tbody>
</table>

| **DATE FORMAT**               |                     | **BOLD=DEFAULT**                                                            |
| **DATE** (date f)             | 1-mm-dd 2-mm/dd/yy  | Select date format                                                          |
| 3-mm/dd/yyyy 4-dd-mm 5-dd/mm/yy 6-dd/mm/yyyy 7-ddmoyy 8-ddmooyyy. | |                               |

| **DATE** (date)               |                     | **BOLD=DEFAULT**                                                            |
| **DATE**                      | Enter XXXXXX        | Select date format                                                          |

| **TARE AUTO PRINT**           | **BOLD=DEFAULT**    | **BOLD=DEFAULT**                                                            |
| **TAREAP**                    | ON/OFF              | If ON -tare auto-prints displayed weight.                                   |

| **ONE LINE PRINT**            | **BOLD=DEFAULT**    | **BOLD=DEFAULT**                                                            |
| **IL PRT**                    | ON/OFF              | If ON -indicator data prints on one line.                                   |

| **AUTO PRINT**                | **BOLD=DEFAULT**    | **BOLD=DEFAULT**                                                            |
| **APRINT**                    | ON/OFF              | If ON -pressing keys auto-prints weight values.                             |

| **INTERFACE**                 | **BOLD=DEFAULT**    | **BOLD=DEFAULT**                                                            |
| **COM IN**                    | DOWNLD, EZ CMD, EZ2CMD | Com port interface selections                                                  |

*DOWNLD for Data Down Loader, EZ CMD = Original EZ Commands, EZ2CMD = EZII Escape Commands.*
### Menus and Calibration

<table>
<thead>
<tr>
<th>SETTING [display]</th>
<th>OPTIONS [displayed]</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRINT FORMAT (PRTFMT)</td>
<td>AUTO, UONLY, DWNLD, DT+TN, ID+TN, IDUTTN, ANIMAL, 3200-A, 3200-B, 32-TMR, DATCHI, FDNINFO</td>
<td>Select alternate &amp; comma (CSV) formats.</td>
</tr>
</tbody>
</table>

**OPTIONS [displayed]**
- WTRCTM
- EIDINF
- EID
- EI0V10
- PRTAC1
- PRTAC2
- PRTAC3
- PRTAC4
- PRTAC5
- PRTAC6
- BUFINF

**DESCRIPTION**
- AUTO
- UONLY
- DWNLD
- DT+TN
- ID+TN
- IDUTTN
- ANIMAL
- 3200-A
- 3200-B
- 32-TMR
- DATCHI
- FDNINFO

- WTRCTM
- EIDINF
- EID
- EI0V10
- PRTAC1
- PRTAC2
- PRTAC3
- PRTAC4
- PRTAC5
- PRTAC6
- BUFINF

<table>
<thead>
<tr>
<th>(ZEROUT)</th>
<th>Perform the Zero/Balance for SCOREM #11 weight output and Analog Output Option (4-20mA).</th>
</tr>
</thead>
<tbody>
<tr>
<td>(CI DLY)</td>
<td>OFF, .10, .25, .50, .75, 1-5 Choose the number of seconds the printer will delay before advancing to the next print line.</td>
</tr>
<tr>
<td>(C2 DLY)</td>
<td>OFF, .10, .25, .50, .75, 1-5 Choose the number of seconds the printer will delay before advancing to the next print line.</td>
</tr>
<tr>
<td>(PRTACC)</td>
<td>Reset Print Accumulator</td>
</tr>
</tbody>
</table>

**MENU 3. SCALE CALIBRATION SETTINGS**

| DISPLAY COUNT (COUNT) | .01, .02, .05, .1, .2, .5, 1, 2, 5, 10, 20, 50, 100 Count set too small, readings unstable and indicator not accurate |
| DISPLAY UNIT (LB-KG) | LB / KG Unit of measure. When changing weight unit using long form, calibration is adjusted so scale displays accurately in new display unit. |
| CAPACITY (CRP) | 85000 Enter MAXIMUM weight measurable on scale. |

**MENU 4 – NOT USED**
SHORT FORM CALIBRATION

The Short Form Setup & Calibration procedure allows you to change “SETUP” and “CAL” numbers of indicator. Do not attempt to calibrate scale if indicator is not reading stable weights. Calibration procedure will not fix instability, inconsistencies, or flashing "RANGE" messages.

Obtain Current Set-up and Calibration Number

Write down current SETUP and CAL numbers of your GT 400 indicator. These numbers are displayed during Self Test.

To run self test with indicator ON:
1. Press until LB symbol starts to blink. Release, then press to start Self Test.
2. Press to “pause” the Self-Test while numbers are displayed.
3. Press again to allow self-test to complete normally.

SETUP NUMBER

CAL # ________________

Following is a list of functions that are controlled by the “SETUP” number:
- Weigh Method (W MTHD)
- Display Units (LB-KG)
- Display Counts (COUNT)
CALIBRATION NUMBER
The “CAL” number is adjusted to make scale read proper weight for different load cells and to make accuracy adjustments on a scale system. Systems should be checked with known weights and adjusted if necessary to insure accuracy. Both setup and calibration numbers are changed to convert a scale from lbs to kgs.

Calibrating Scale For Maximum Accuracy

Note: To accurately calibrate scale, you need a large amount of weight that has a known value. For best results you should have at least as much weight as largest load you plan to weigh.

Determining New Setup and Calibration Numbers

1. Press \( \text{\textgreater} \text{\textless} \) to Zero-Balance.
2. Put KNOWN WEIGHT on scale platform and write down DISPLAY WEIGHT.

Perform following equation to find ACCURATE CAL NUMBER.

\[
\frac{\text{Known Weight}}{\text{Displayed Weight}} \times \text{Existing Calibration Number} = \text{Accurate Calibration Number}
\]

The setup number does not change.
Enter A New Setup And Calibration Number

1. Press and hold \( \text{ON/OFF} \) and \( \text{Start} \) for 3 seconds to enter short form calibration.

2. The display will flash “SETUP” and then display the 6-digit setup number with the right digit flashing.

3. Press \( \text{Field} \) several times to increment digit to its proper value.

4. Press \( \text{Start} \) to advance digit left.

Repeat steps 3 and 4 for each digit as required.

5. Press \( \text{ON/OFF} \) to enter new setup number and display calibration number.

Repeat steps 3 and 4 to modify the calibration number.

6. Press \( \text{ON/OFF} \) to enter new calibration number and display will go back to normal.

7. Verify the accuracy of scale.
INSTALLATION

Indicator Mounting

<table>
<thead>
<tr>
<th>RAIL MOUNT</th>
<th>WING MOUNT</th>
<th>WEDGE MOUNT STANDARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>KEY</td>
<td>PART NUMBER</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>A</td>
<td>403769</td>
<td>BRACKET – STR TOP MOUNT</td>
</tr>
<tr>
<td>B</td>
<td>403980</td>
<td>BRACKET – ROBO MOUNTING</td>
</tr>
<tr>
<td>C</td>
<td>403770</td>
<td>BRACKET – WING MOUNT</td>
</tr>
<tr>
<td>D</td>
<td>405069</td>
<td>U-BOLT, 1/4-20 X 3.25 ZP</td>
</tr>
<tr>
<td>E</td>
<td>403771</td>
<td>MODIFIED PLASTIC WEDGE MOUNT</td>
</tr>
<tr>
<td>F</td>
<td>405124</td>
<td>WEDGE MOUNT BRACKET, INCLUDES U-BOLTS &amp; NUTS</td>
</tr>
<tr>
<td>G</td>
<td>405084</td>
<td>NUT, 1/4-20 TOP LOCKING FLANGE</td>
</tr>
</tbody>
</table>

Optional Ram Mounting

<table>
<thead>
<tr>
<th>RAM MOUNT STANDARD</th>
<th>U-BOLT BASE</th>
<th>TWIST LOCK SUCTION CUP</th>
</tr>
</thead>
<tbody>
<tr>
<td>KEY</td>
<td>PART NUMBER</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>A</td>
<td>403180</td>
<td>RAM MOUNT</td>
</tr>
<tr>
<td>B</td>
<td>403179</td>
<td>MOUNT BASE-1&quot; BALL U-BOLT</td>
</tr>
<tr>
<td>C</td>
<td>404230</td>
<td>RAM SUCTION CUP W/TWIST LOCK</td>
</tr>
</tbody>
</table>
Cable Connection

Scale Indicator

Power Cord

Remote Indicator (Optional)

Pin To 12VDC Power Supply

1 Red +Terminal
2 Black -Terminal
3 Orange Alarm Out
4 Blue Remote Input

See Connect Load Cells to J-Box (page 19)

Bottom Panel Cable Connections
Connect Load Cells to J-Box

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

<table>
<thead>
<tr>
<th>Wire Color Key</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>5</td>
</tr>
</tbody>
</table>

Tighten Nuts

J-Box Cable

Load Cell Cable

Connect to Indicator bottom Panel.

Load Cell Direction

BENDING DIRECTION
DIRECTION DE FLEXION
BIEGERICHTUNG

Observe direction of arrow when installing load cell.

Indicator Calibration

If you connect an indicator to a different weighing implement, the calibration and setup number may need to change. Refer to calibration procedures (see pages 14-16) or contact your Digi-Star representative for assistance.
OPTIONAL EQUIPMENT

Data Transfer Options

Kit Data Down Loader

Allows transfer of data from indicator to P.C. (Optional serial/J905 port must already be installed in indicator)

Remote Indicators

RD440 small remote display
RD2400V backlit remote display with 1.7” high numbers
RD2400V backlit remote display w/transmitter and installed receiver
RD4000 remote display
TROUBLESHOOTING
FLOW CHART

START

YES

Does the indicator come on?

YES

Is the reading on the Indicator stable?

YES

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

YES

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

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

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

NO

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

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

YES

Fix or replace the J-Box

NO

See next Page

NO

Your display is unstable, or flashes “±RANGE” disconnect the j-box cord from Indicator.

Is display still unstable?

NO

If your display is unstable, or flashes “±RANGE” disconnect the j-box cord from Indicator.

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?

NO

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

NO

Remove the cover from your J-Box

Is there moisture inside the box?

YES

Dry out your J-Box (use a hairdryer). Check cable strain reliefs for tightness. Cables have drip loops. Is lid gasket damaged?

NO

Look for loose connections. Watch your Indicator display while moving the wires and pressing on the circuit board inside the J-Box. You will see if there is a loose connection or bad solder joint.

See next Page
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.)

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)

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.