WEIGH-TRONIX

Pallet Scale Installation Guide

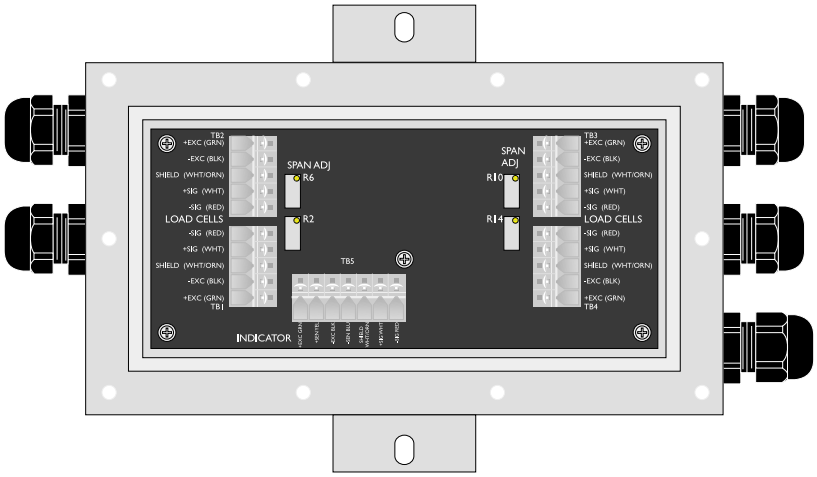
Installation

Proper scale installation provides accurate and reliable system operation. It is essential to mount the scale on a flat, level, and solid surface. The load-bearing surface areas should be within ±1/16 inch of the same level plane. Minor irregularities in the floor may be compensated for with the feet adjustments. The scale should not rock on the load-bearing surface areas and these areas should not give under loads. Check level with the attached bubble level

Interface Connections

R2 is the corner balance for TB1.
R6 is the corner balance for TB2.
R10 is the corner balance for TB3.
R14 is the corner balance for TB4.

To make the interface connections you need to turn the scale over and remove the access cover. The junction box is attached to the cover. Remove the junction box cover plate. Attach the leads of the indicator interface cable to TB5 in the junction box per Figure 1.



W-T Wire Color	Signal
Green	+Excitation
Yellow	+Sense
White	+Signal
Orange/White	Shield
Red	-Signal
Blue	-Sense
Black	-Excitation

Figure 1
Junction box and wiring table

Calibration

Corner Balancing the Scale

For the indicator to function properly, the signals reaching the indicator must be identical no matter where a weight is placed on the scale. Getting these signals to match is called corner balancing the scale.

Your goal is to get the readings from the weight sensors to match. You do not have to get the correct weight reading at this point. That is taken care of when you calibrate your indicator.

This scale was corner balanced at the factory, but in a new installation it is required that corner balancing and calibration be checked to ensure installation accuracy.

One potentiometer affects one weight sensor. You balance the weight sensors by adjusting the corresponding potentiometer in the junction box according to the steps listed on the next page.

1. Remove the junction box cover to access the potentiometers.
2. To capture the value of internal zero for your particular indicator, refer to your indicator's Service Manual.
3. Use test weights equal to 20-25% of full capacity and obtain a displayed weight value for the test weight applied to each of the four weight sensors, like this:

   3a. Disable AZT on indicator.

   3b. Place certified test weight directly above first weight sensor.

   3c. Record displayed weight value.

   3d. Repeat steps 3b and 3c for each weight sensor.
4. If displayed weight values for all weight sensors equal each other, within +/- 1 division, proceed now to *Final Span Calibration* instructions.
5. If displayed weight value for any weight sensor varies from the others by more than +/- 1 division, adjust the appropriate junction box potentiometer by turning it the number of 360 degree turns indicated by this formula:

$$\frac{\text{Certified Test Weight Value - Displayed Weight Value}}{\text{Certified Test Weight Value x .0028}} = \text{Number of Turns}$$

   If the **Number Of Turns** is a positive value, turn the potentiometer clockwise. If **Number Of Turns** is a negative value, turn the potentiometer counterclockwise.
6. Repeat steps 3b and 3c followed by step 4 or step 5.

Final Span Calibration

1. Make sure scale is empty and indicator is zeroed.
2. Load scale with as much evenly distributed test weight as available (not to exceed scale capacity).
3. Unload scale and check for zero shift.
4. Rezero indicator if necessary and reload scale.
5. If necessary, trim the FINE SPAN control in the indicator for an indication precisely equal to the calibrated test weights applied to the scale. See your indicator's Service Manual for details on this procedure.
6. Enable AZT on indicator.

Your scale is now corner balanced and the system is calibrated.

Weigh Bar® Replacement

To replace one or more weigh bars follow this procedure:

1. Turn the scale over.
2. Remove access cover and J-box cover plate then disconnect weigh bar cable from junction box terminal bar.
3. Unscrew foot from weigh bar(s) to be replaced.
4. Place proper size punch through the small hole in the side of the scale and drive the roll pin out of the weigh bar support.
5. Pull weigh bar out.
6. Place new weigh bar into position.
7. Align roll pin holes and drive in roll pin.
8. Replace foot.
9. Re-route weigh bar cable to junction box and connect.
10. Turn scale over.
11. Check corner balancing and calibration of the scale. Adjust if necessary.

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