



LOAD CELL DESIGN CHANGE - 2 1/8" DB's PRODUCT BULLETIN

Digi-Star | 790 West Rockwell Avenue | Fort Atkinson, WI 53538 | Phone: 920-563-1400 | FAX: 920-563-9721

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Please Retain for Future Reference

Bulletin #: PB002

PRODUCT REVISION NOTES

It should be understood that the following message is only applicable to Digi-Star 3-point weighing systems that contain one 2.125" DB hitch and two 2.50" DA axle Load cells. This affects no other Digi-Star systems. If you do not use these 3-point systems or do not service these 3-point systems, please discard this.

In our effort to strive for continuous improvement, Digi-Star is changing the design of our 2 1/8" DB Load Cells. The change is internal and not visible, but will improve the performance of the Load Cells. The improvement consists of changes to the circuitry, including the repositioning of the Strain Gauges. The advantage of implementing these changes makes the Load Cells less sensitive to load and mount positioning. Additionally, these Load Cells will maintain their accuracy even after years of wear and tear to the mixer.

This same change was made to our axle type Load Cells several years ago with excellent results. The only notable change you may see (except for improved performance) is a slight change in your system calibration number. The new calibration is **24597** (was 24080). Please make a note of this where you will have easy access to it. Because of the variety of mounting applications these Load Cells are used in, the only way for you to know for sure if your system is accurate is to check the calibration of the system with known weights.

The best method for checking the calibration of your system is to load a known weight that is $\geq 25\%$ of your total system capacity. For example if your system consists of two 2 1/2" axle load cells and one 2 1/8" hitch bar the rated capacity would be 26,000 lbs then you would use a weight of ≥ 6500 lbs. If your system is weighing higher or lower (we suspect any changes will be higher anywhere from 0-4%) you can fine-tune the calibration using the "Short Form" calibration feature on your Indicator. (Note: If you want your system to weigh higher for example by 2%, you should increase your Short Form calibration number by 2%.)

If you check your scale system in the manner suggested above and find the calibration number to be different than 24597 we would appreciate hearing from you. Please call the number listed below.

TECH NOTE: Keep in mind that to calibrate your system the weight should be distributed the same as in actual use. In most systems the hitch bar only sees ~ 10 – 20% of the total weight. You do not want to just place a large weight onto the hitch to calibrate your system.

If you have any further questions please contact Digi-Star at (920) 563-9700.