

HARDY C2[®] DIFFERENCE

- **FAST**
Calibrates with ONE reference point, not FIVE
- **SAFE**
Eliminates need for full-scale test weights
- **RELIABLE**
Data stored in chip

Since 1994, thousands of weighing systems have been calibrated electronically using C2[®] Electronic Calibration by Hardy Process Solutions. Unlike calibration with test weights, all the live weight on the scale does not have to be removed and heavy test weights do not have to be repeatedly put on and off the scale. As soon as your scale system is installed, it can be C2 calibrated, and proper scale installation verified. The result is a calibration that is easier, quicker, safer, and typically more accurate than methods used in the past.

Weight Free Calibration Using C2

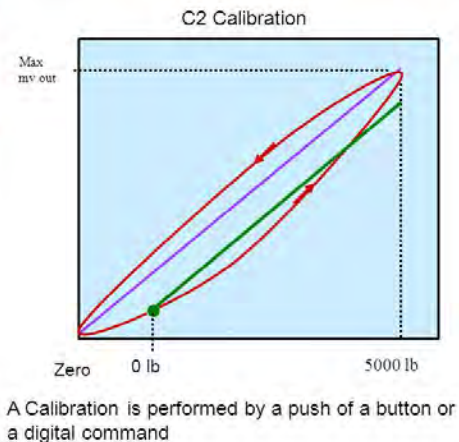
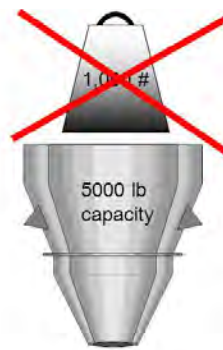
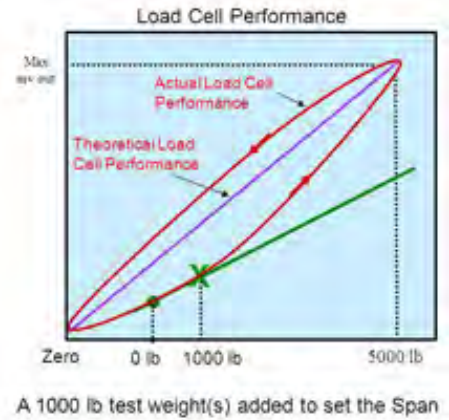
- ≥ 4 X Faster
- ≥ 2 X Safer
- ≥ 3 X Easier

What is a C2 system?

A C2 system includes load points, junction box, cabling and instrumentation, and is designed to make calibration easier than ever before. Upon installation or re-calibration, your Hardy instrument automatically searches for C2 certified load points and records their performance characteristics. Entering a reference point is all that's needed to bring your system on-line within seconds. On instruments with "THE BUTTON" feature, one touch of a button is enough. All that's left is to verify your scale. This is done by carefully distributing one or two small weights (25 to 100 lbs.) on to the scale so they are shared by all the load sensors. The scale reading should equal the value of the test weight/s applied. Remove the weight/s and the scale reading should return to its original value. If both of these are true then the scale is calibrated, verified and ready for use. If the values are not true, then there are mechanical problems with the scale that need to be corrected.

Is C2 Electronic Calibration as accurate as calibration with test weights?

Theoretically, test weights should provide an accurate calibration within the quality of the scale installation. However, calibration conditions are often less than ideal. Many vessels lack the space needed to place enough test weights on them to get an accurate calibration. Distributing the weights equally on the vessel may also be impossible. Some vessels are mounted in areas offering limited



accessibility, while others have weight capacities far in excess of available test weights. These real world issues often cause calibration errors.

With C2, these considerations are no longer an issue. Each individual load sensor has its performance characteristics stored on an internal memory device. These characteristics are measured on National Institute of Standards and Technology (NIST) traceable test devices and electronically recorded when the sensor is manufactured. The C2 system uses these parameters, the instruments' characteristics and a reference point to calibrate the scale system.

C2 reduces downtime for repairs and time waiting for test weights. It eliminates test weight related injuries and ends material substitution headaches, including contamination and waste disposal issues. C2 is a standard feature on Hardy load sensors, weigh modules, and weight and rate controllers.