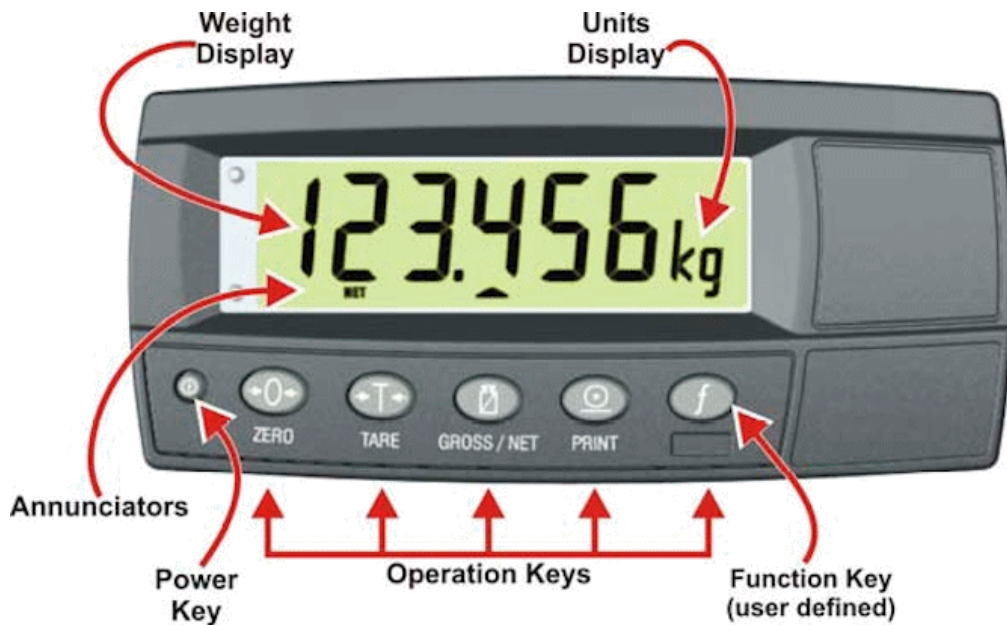


Short Calibration Procedure

LTWS-1 Hydraulic Weighting System Rinstum-R320 and GSE-250 Indicators.

Firmware A301 v1.00 to v1.53

(Last revision 10 September, 2010)



General comment:

Your **LTWS-1 Hydraulic Weighing System** can This short calibration procedure is useful where you have already set up and calibrated the scale and now only intend to "Fine tune" the system.

CALIBRATION:

Apply Power:




Activate Calibration Mode:

Simultaneously hold down the small Power Key  and the "F" Key  for about two (2) Seconds to enter **SetUp/Calibrate Mode**.

The indicator will display in automatic sequential order: FULL, SETUP, **the firmware I.D.** , and bUILD (BUILD)



Press "0" (ZERO)  until "OPT iON" (OPTION) is displayed



Press "T" (TARE) (8 TIMES) until "StArt" (START) is displayed.



Press GROSS/NET key and either "kEy" (KEY) or "AUtO" (AUTO) will be displayed



Press "PRINT" key until "kEy" (KEY) appears on the display




Press  to store the "kEy" (kEy) setting. The Display will revert to "StArt" ("START")




Press "0" (ZERO)  until "CAL" (CAL) is displayed



Press "T" (Tare)  to select "ZEro" (ZERO)




Press GROSS/NET key  and the display will show **"(some number)"**.

This number is "live" and related to the hydraulic pressure of the instant. (See tech notes for usefulness of this number in calibrating and trouble-shooting.)




Lift empty forks and stop at the height where you will normally weigh your loads.


Press  to store the "ZErO" (ZERO) setting. The Display will show "Z.in.P" momentarily, then Display "0 lb" or a weight close to zero pounds.



Please remember that this number is "live" and related to the hydraulic pressure of the instant. After the initial "0" is set, the number will change with bleed-off of hydraulic pressure. This is normal in a "live" measurement environment. The Indicator Firmware deals appropriately with bleed-off when the system is in "AUTO" mode instead of manual (KEY) mode.


Press "T" (Tare)  (two times) to select "SPAN" (SPAN)



Press GROSS/NET key  and the display will show "(some number)".

This number is "live" and related to the hydraulic pressure of the instant. (See tech notes for usefulness of this number in calibrating and trouble-shooting.)



Press GROSS/NET key  again to enter your Known Weight. The display will show the last calibration weight with a flashing digit.

Enter your test weight value using the GROSS/NET key to select the flashing "0" and change the value of that flashing number with the PRINT key.




Lift the test weight and stop at the height where you will normally weigh your loads.


Press **f** to store the "SPAN" (SPAN) setting. The Display will show "S.in.P" momentarily, then display the weight of your test load. This is a "live" weight and will change with bleed-off.



Please remember that these numbers are "live" and related to the hydraulic pressure of the instant. After the lift is stopped, the number will change with bleed-off of hydraulic pressure. This is normal in a "live" measurement environment. The Indicator Firmware deals appropriately with bleed-off when the system is in "AUTO" mode instead of manual (KEY) mode.


Press "0" (ZERO)  until "OPT iON" (OPTION) is displayed




Press "T" (Tare)  (eight times) to select "START"



Press GROSS/NET key  and "kEy" (KEY) will be displayed

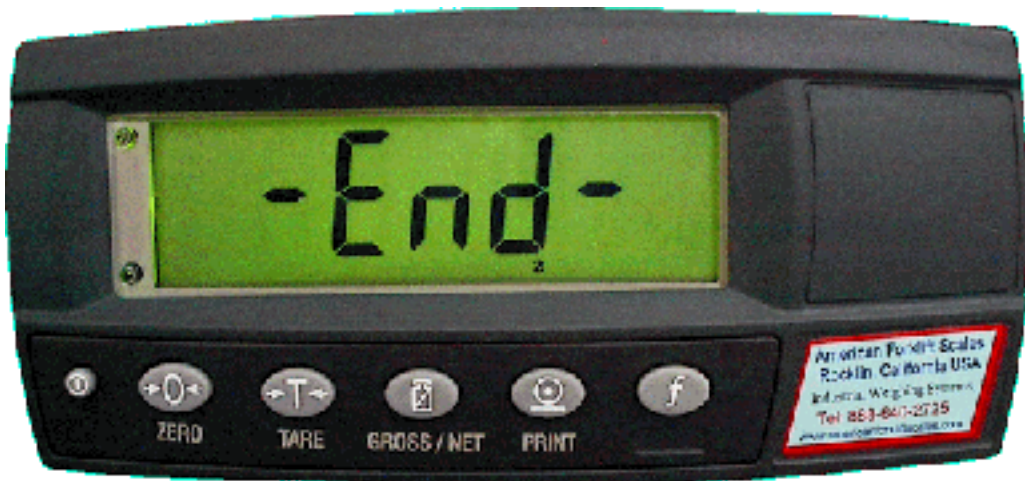
Press "PRINT" key  until "AUtO" (AUTO) appears on the display



Press  to store the "AUtO" setting. The Display will revert to "StArt"



Press "0" (ZERO) several times  until "End" (END) is displayed



Press "T" (Tare)



to Save and Exit. The display will show "SAVINg" and enter normal

Weighing Mode.



Calibration is now complete.

Call Tech Support if you need assistance. (805-236-7406). Tech Support at this number is available 7 days per week, including holidays.