



**Specialized
Ultrasonic Measuring
Magazine Volume and Weight
Capture Integrated
Receiving Scaling Solution**

BOSS VIP v3

Manual
v. 20030804

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Overview

The receiving scale is a state of the art scale with an ultrasonic measuring device in one simple to use package. It is designed to weigh single copy magazines and measure thickness in one easy step for the operator. Using specially designed compression plates for measuring the magazine thickness, the readings are far more accurate than by measuring manually with calipers. By performing both functions in one operation along with transmitting the weights and thickness to the receiving program, labor time is decreased dramatically. Errors are also eliminated because the operator does not have to input these values into the receiving program.

The system was designed for use in conjunction with software in the periodical distribution industry. Software programs used with this system must allow for serial data transmission.

The unit should be used in an environment where large temperature changes do not occur if possible. Because of the characteristics of the measuring device (non-contact) the change of air temperature causes changes in the density of air. Small changes are compensated in the measuring device but the zero reference should be checked frequently if used in areas of heated or air conditioned environments.



INSTALLATION

Caution! Do not connect power to scale before mounting and connecting sensor. Damage to scale or sensor may occur.

(1) Verify you have received the following items before installation.

- 1ea. Weigh-Tronix Model TT-830 Bench Scale
- 1ea Stainless steel compression plates
- 1ea Measuring sensor
- 1ea Bracket assy. with interface cable
- 2ea 1/4-20 x1/2 bolts

(2) Remove scale from box

(3) Locate the compression plate and place on top of scale platform aligning the back holes in plate with the holes on scale top.

(4) Locate the measuring device bracket and place on top of compression plates aligning holes in bracket with holes in compression plates. The large hole in the bracket should be facing the front of scale.

(5) Using the 2 1/4-20 bolts provided place bolts through the holes in bracket and compression plate and into the scale top. Snug the bolts into the scale top - **DO NOT OVERTIGHTEN !**

(6) Insert the measuring device into the holding bracket from the top with the 9 pin connector facing up. The label affixed to the sensor should just contact the top of the bracket. Secure the sensor into the bracket by tightening the allen head screw in the side of the bracket.

(7) Locate the 15-pin interface connector on back of scale unit. Attach the mating connector of the measuring device to this connector and tighten screws. Cable should loop between top of scale and connector as not to interfere with scale weight.

(8) Connect the computer interface cable (provided) to the 9-pin connector beside the 15 pin connector.

(9) Make sure the compression plates are flat and nothing is between plates or on top of the upper plate.

INSTALLATION (Cont.)

- (10) Apply power to scale and press the on key.
- (11) After turning scale on the scale and the measuring device will initialize and perform an internal communication check. If working properly the unit will display a random number on the display and show that a zero reference has been established.
- (11) Scale should display 0.000 weight. If not press the yellow zero key.
- (12) Unit should now be ready to operate.

Operation

- (1) Make sure scale reading is displaying zeroed before beginning.
- (2) Lift upper compression plate from underneath or by cutout enough to get magazine between compression plates.
- (3) Place magazine between plates and gently lower the upper plate onto the magazine.
- (4) When weight stabilizes the scale will trigger the measuring device and display the weight and magazine thickness along with transmitting these values to the computer.
- (5) Lift the upper plate to remove magazine and return to step 1 to weigh / measure other magazines.

KEYS

Measure This key allows operator to check the zero reference of the measuring device. If an error in the thickness is suspected, remove any objects from between the compression plates and press this key. The thickness value should be 0. If it is not refer to the ZEROREF key to establish zero thickness value.

ZEROREF This key allows for establishing a zero reference point for the measuring device. When this key is pressed the sensor is triggered and a value represented in counts will be displayed. A message will also be displayed that the zero reference has been confirmed. Always remove any objects from the compression plates before pressing this key

CALIBRATION PROCEDURE

WEIGH-TRONIX TT830

CALIBRATE Hold ESCAPE key until setup password appears.

Key in 30456 and press ENTER key

Press the F2 key.

Display will show REMOVE LOAD AND PRESS ENTER.

Press the ENTER key.

Display will read DETERMING ZERO.

After zero is acquired, display reads PRESS ANY KEY.

Press the ENTER key.

Display will go back to the main menu.

Press the F3 Key.

Display will ask for the calibration weight.

Key in test weight value you will use for calibration.

Press ENTER.

Display will prompt to apply weight and press enter.

Press ENTER .

Display will read Determining Span.

When "span" is acquired display reads PRESS ANY KEY.

Press the ENTER Key

Display will go back to main menu

Press F5 (EXIT)

When prompted to save changes press the ENTER key.

Scale will then go back to weighing mode.

Warranty

Data Processing Services, Inc. vendor, Systems and Controls warrants the material and workmanship of the Scale / Measuring system for a period of one (1) year from date of shipment. The defective unit must be returned prepaid to Systems & Controls for any warranty failures. Systems & Controls reserves the right to inspect any defective component in question to verify warranty claim.

All liability of Systems & Controls shall be limited to furnish replacement parts and labor to install defective parts and calibration of said components. Any failure of equipment or parts due to abuse, improper installation, exposure to corrosive or abrasive materials or other materials that may cause damage to the unit will not be covered. Costs incurred by any third party vendor to service equipment is not covered under this warranty contract.

Extended Warranty

An extended warranty program is available for this unit which includes a replacement unit to be shipped overnight in the event a problem is incurred along with 24/7 customer support and any updates to software loaded into unit at no charge. Warranty does not cover cost of inbound and outbound freight. Please contact your representative for extended warranty details.