



PENNSYLVANIA
SCALE  COMPANY

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Manual 7600OG2020REV1**

Unpacking and Startup

Unpack the Scale

- DO NOT LIFT SCALE BY THE TOP SPIDER OR SUB PLATFORM!
- Remove the molded foam top from the carton. On 2 lb. and 5 lb. capacity scales the platform is packaged on top of this foam. Gently lift and remove the stainless-steel platform cover only.
- Remove any options which may be packed with the scale.
- Carefully remove scale from the packaging by grasping both sides of the base.



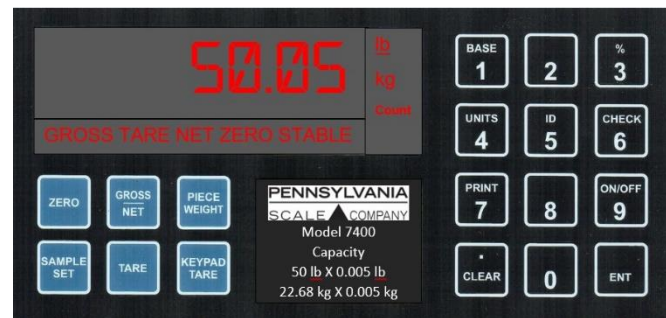
Scale Setup

- Place the scale on a stable, level surface for operation.
- Adjust the corner leveling feet until the level bubble indicates the unit is level.
- Firmly tighten hex jam nuts on the leveling feet. (Any time the scale is relocated, it should be leveled.)
- Remove the protective plastic wrap from the platform and place the platform on the spider.
- Plug the scale into 110/120 VAC



Scale Operation

- Press the ZERO button to zero the scale
- Press the UNITS button to cycle through units of measure
- Press the PRINT button to send scale data to a printer or connected software
- Press SAMPLE SET to Create a Piece Weight and Count
- Press TARE or KEYPAD TARE to enter a tare weight

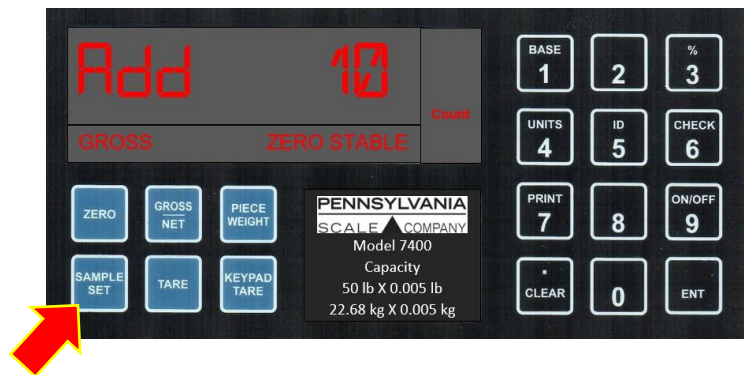


Basic Counting Operation

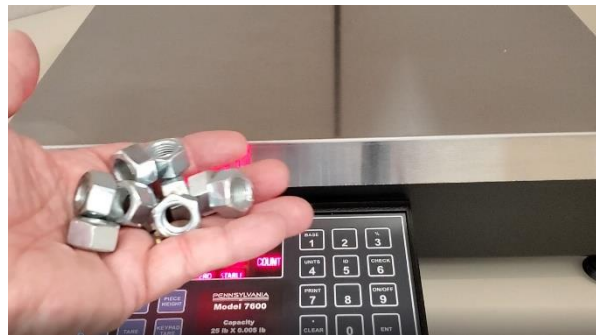
- ✓ If a container will be used to hold items being counted, place it on the platform.



- ✓ Press the SAMPLE SET button, press repeatedly to scroll to the desired sample size. OR key in the sample size and press ENTER



- ✓ Place the sample quantity on the scale platform all at once












- ✓ Piece weight is calculated, and count displayed. All the remaining parts may now be added to the scale and counted.










7600 Advanced Operation.

See the 7600 Technical Manual for detailed configuration and setup information


Advanced Counting Operations


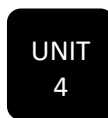

- Auto Sample Update** (In **CAL 10**, **ENH 15** select **YES** and in **CFG 50**, **YPR 57** select **P ERR** or **P ACC** to enable.) After the initial sample and piece weight calculation placing additional parts on the scale platform at a quantity less than the original sample size results in the scale recalculating the piece weight resulting in a higher % off accuracy or lower % of error.
- 2 Step Counting** (In **CFG 50**, **25 56** select **YES** to enable.) Press the  button and place a sample quantity of the items to be counted on the scale platform. Key in the number of pieces and press the  button. Piece weight is calculated, and scale will display count.
- Counting with A Piece Weight and Tare Weight** Press the  button, key in the piece weight and press the  button. Press the  button, key in the tare weight and press the  button **OR** place the empty container (or representative container) on the scale platform and press the  button. This information may also be scanned into the scale with a barcode scanner and barcode that has the input piece weight and input tare weight commands embedded.
- Negative Counting** (In **CFG 50**, **25 56** select **YES** and **NEG 59** select **YES** to enable.) Negative counting allows a negative or count out of a full container. Place the container and parts on the scale, press the  button and remove a sample quantity from the container. Key in the number of pieces and press the  button. Piece weight is calculated, and scale will display count removed as a negative number.
- Top End Counting** (In **CFG 50**, **25 56** select **YES** and **NEG 59** select **NO** to enable.) Top end counting is an easy way to determine the count of a container of parts without having to remove them from the container. Place the container and parts on

- the scale, Press the  button, key in the tare weight and press the  button and remove a sample quantity from the container. Key in the number of pieces and press the  button. Piece weight is calculated, and scale will display count of the parts in the container.
- Auto Sample to Bulk** (In **CFG 50**, **ASb 58** select **YES** to enable.) This counting method is designed for a two-scale base system. Sampling occurs on the light capacity higher resolution scale base for improved piece weight calculation accuracy then automatically switches to the second heavier capacity base for bulk counting.
- Product ID and Piece Weight Database Store and Recall** (In **CFG 10**, **STR 16** select **A** to enable.). Press the  button, key in the product ID and press the  button. If this product ID is not in memory the scale will go to the piece weight calculation function and display **Add xx**. Perform a sample by scrolling to the desired sample size and placing the parts on the scale platform. The scale will calculate the piece weight and store it with the product ID in memory. Perform counting functions as needed for this part. Repeat the above steps for each new product ID and piece weight to store in memory. You can store a total of 250 pieces. To recall an ID and Piece Weight from memory press the  button, key in the product ID and press the  button. Product ID and piece weight will be loaded and scale will be in count mode ready to count this part. This may also be configured to enter a piece weight instead of using the sample process to establish a piece weight. In **CFG 10**, **STR 16** select **b** to enable.



Accumulation

- The accumulation function will keep a running total of what has been weighed or counted. As an example, if you're weighing 10 boxes that each have a piece count of 100, the accumulation feature would allow you to see the total of 100 pieces for each box and a total of 1000 pieces for all the boxes. Additionally, when using a printer in the above scenario an individual box label showing a quantity of 100 and a pallet label showing 10 boxes of 100 for a total of 1000. The 7600 can be set up for:

- Manual Accumulation press the  button to accumulate. In **CAL 1, ACC 6**, select **PR** to enable manual accumulation of weight or **CAL 1, ACC 6**, select **CNT** to enable manual accumulation of count
- Auto Accumulation occurs on first stable non-zero weight. In **CAL 1, ACC 6**, select **A-PR** to enable auto accumulation of weight or **CAL 1, ACC 6**, select **A-CNT** to enable auto accumulation of count

- To clear the accumulation, register press and hold the  button. The display will flash **CLR.ACC** and **NO.** press the  button to select **YES** and the  button to clear the accumulation totals.
- When using accumulation and with the optional printer the system can be configured to print a box label and pallet label.

Setpoint Entry

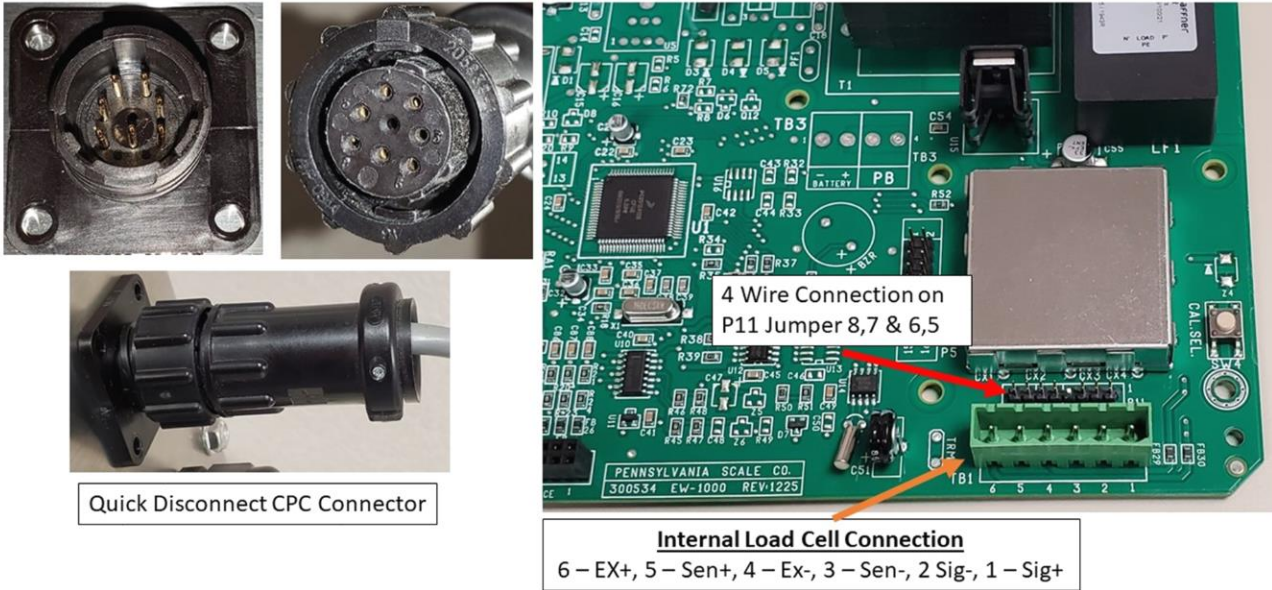
- When the setpoint relay option is installed enter the setpoint values by pressing and holding the  button, keying in values and press the  button

SPECIFICATIONS

- **LOAD CELL A/D CONVERTER**
- **TYPE:** 24-bit delta sigma (1:16,777,216)
- **EXCITATION:** 5 VDC, 120 mA max.
- **SIGNAL INPUT:** 16 mv
- **SENSITIVITY:** 0.1 Uv/grad
- **UPDATE RATE:** 30 update/second
- **DISPLAY:** Six (6) Digits, 0.6-inch LED
- **KEYPAD:** Full numeric plus controls
- **POWER INPUT:** 117/217 VAC, 50–60 HZ, 20 watts, fuse 0.50 A Slo-Blow.
- **SERIAL PORTS:** RS232C
- **ENCLOSURE:** Cast Aluminum Chassis and Load Cell Spider, Stainless Steel Platter.
- **NTEP:** Class III/IIIL, 10,000 divisions CoC 91-149A7
- **MEASUREMENT CANADA:** MAL-AM-4869
- **OPTIONS:**
 - **ANALOG OUTPUT:** 0-10v, 4-20ma (16-bit D/A).
 - **ETHERNET TCP/IP**
 - **REMOTE DISPLAY MINI TOWER**
 - **AC/DC OPERATION WITH BUILT IN RECHARGEABLE BATTERY**

Connections:

Remote Base Connection



RS-232 PIN ASSIGNMENTS AND IMPLEMENTED FUNCTIONS

Connection to the Serial Port is made via a DB-9 female connector found in the access area under the scale. Internal Instrument connection is on the main board,

TB2-1,2,3.

PIN FUNCTION

5 Signal Ground

2 Transmit Data

3 Receive Data

DB9M Connector

