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# **ProScale Gemological 10 User Manual**

## KEY PAD FUNCTIONS

### \* UNIT

Unit (mode) selection: Press and release the key once to change weight unit.

### \* ON/OFF

Press this key to turn unit on. Once the unit is on, press and hold the same key to turn the scale off

### \* ADD UP (Count)

The following steps outline the procedure for cumulative weighing of samples: Switch the scale on Place an item on the tray to be weighed, after the stable weight is shown, press ADD UP, replace the item with the second item to be weighed, after the stable weight is shown press ADD UP, the combined weight will show on the display. You can repeat this process for as many items as you want, up to the max capacity of the scale.

### \* TARE (Zero)

Press Tare to reset the scale to Tare. This can be used for eliminating from a sample (or a Tray/Container) the weight value of a container weight is permanently removed for the remainder of the procedure. Just turn the scale ON, place the tray or container on weighing platform, and press the Tare key. The scale will show 0.0 (or 0.00) on the display and you can add items to the container/tray.

NOTE: When all weight are removed from the weighing tray, the tared value of a container will be displayed as a **negative number**. Cycle the power on the scale to reset the scale to Tare.

\*\* These electronic scale are precision instruments. Avoid disturbing environmental conditions such as currents, vibrations, strong electrical and magnetic fields as well as a rapid change of the ambient temperature.

### \* Auto off

An auto shut off feature is provided to conserve battery power. The unit will automatically turn off after approximately 1-3 minutes of inactivity.

## OPERATION

Battery Operation:

**DO NOT USE EXCESSIVE FORCE & DO NOT ALLOW ANY PRESSURE TO BE PUT ON THE WEIGHING TRAY!!!**

- 1) Four "AAA" size ALKALINE batteries are required.
- 2) To install batteries:
  - a) Release the battery cover by pressing the edges inwards.
  - b) Place batteries into battery compartment aligned correctly.
  - c) Replace battery cover.
- 3) The scale is now ready for battery operation.

### (Advanced users only) CALIBRATION

Repeat calibration if the scale ever performs inaccurately. Incorrect calibration can occur if you do not follow the steps exactly. You will need a 10g and 20g calibration weight (included in the scale box) to calibrate this scale. **NOTE: if you do not have access to a calibration weight you can purchase one at your local store or in emergency situations you can use coins or weights**

- 1) Place the scale on a Flat, very stable surface. The power must be OFF (be sure the power is OFF)
- 2) Press and hold the "TARE" key for 10 seconds until the display shows the AD value (a random series of numbers).
- 3) Press the TARE key again, the display will show 0000
- 4) Gently place a 10g weight on the tray and wait 3 seconds.
- 5) Press the TARE key, then remove the 10g weight.
- 6) Gently place a 20g weight on the tray and wait 3 seconds
- 7) Press the TARE key, then remove the 20g weight
- 8) \*\*Press and hold the TARE key until the power turns off  
\*\* Do not skip this final step\*\*

Calibration is now complete

**NOTE:** if after calibration your scale does not read accurately, this indicates calibration error and the calibration process should be repeated slower.

**Please calibrate on a very stable flat surface**

### INACCURACY / ERROR

The primary reasons for inaccuracy or malfunction are low batteries, incorrect calibration, overload or operating on an unstable surface. Please keep this in mind and maintain and operate your scale properly. The scale is a precise instrument and must be handled with the upmost care and caution.

# JSCALE P.G. MANUAL

## PLEASE READ COMPLETE INSTRUCTIONS BEFORE USE

Thank you for purchasing The Jennings P.G.. With normal care and proper treatment it will provide years of reliable service. Please read all operating instructions carefully. You can contact us at [www.Jscale.com](http://www.Jscale.com)

### **.KEEP THE FOLLOWING POINTS IN MIND:**

\* Avoid lengthy exposure to extreme heat or cold, your scale works best when operated at normal room temperature. **If the scale has been subjected to temperature change, please allow the scale to acclimate to normal room temperature for at least one hour before use.**

\* Allow sufficient warm up time. Turn the scale On and wait several seconds to give the internal components a chance to stabilize before weighing.

\* The cleaner the environment the better. Dust, dirt, moisture, vibration, air currents and proximity to other electronic equipment can all cause an adverse effect on the reliability and accuracy of your scale.

\* Handle with care. Gently apply all items to be weighed onto the tray. Although this scale is designed to be quite durable, try to avoid rough treatment as this will permanently damage the internal sensor and void your warranty.

\* Avoid shaking, dropping or otherwise shocking the scale. This is a precision instrument and **MUST BE HANDLED WITH EXTREME CARE.**

**\*IMPORTANT ADVICE: Place the item to be weighed on the platform, after the stable weight is displayed remove the item immediately. This will prolong the longevity and accuracy of this weighing instrument.**

\*\* These electronic scale are precision instruments. Do not operate near an in-use cell phone, cordless phone, radio, computer or other electronic device. These devices emit RF and can cause unstable scale readings. If your scale ever performs poorly, try moving the scale to a different room or location. This is a very precise scale - the display may seem to wander or jump when weighing. This is due to air currents or vibrations. Stable weighing is achieved when the display remains fixed for 3 seconds.

## FEATURE

\* **Power Up Segment Test:** When first turning the unit on, all segments of the display will appear as shown below. This display will remain for approximately 2 seconds and then reset to 0. **8:8:8:8**

\* **Overload:** When an applied load exceeds the capacity. "EEEE" will appear on the display. Remove the excessive load immediately! Although the JS uses proprietary overload protection technology, it is still possible to damage the weighing sensors by overload.

***!Remember: You can permanently damage the scale by overloading it!***

## TROUBLESHOOTING & OPERATION NOTES:

- 1) If the scale performs inaccurately please recalibrate the scale as outlined in the manual
- 2) If the Display ever becomes locked on **oL d** or **EEEE**, this indicates that the scale was shocked, dropped or otherwise damaged and the delicate weighing sensors have been damaged. You can try recalibrating the scale (If the sensor has not been hurt too badly it will work again after recalibration). Otherwise you will have to follow the warranty instructions that came with your scale.
- 3) If the display becomes locked on **8888**, this often indicates low batteries. However sometimes it also may indicate a serious Tare mark error. This means when you turn the scale on, it can't determine what Zero is (a slight Zero mark error will cause situation #1 above) Thus, if new batteries do not fix this error the scale will have to be sent to us for replacement under our 5 year warranty program.
- 4) If the display will not stabilize, this means the scale or environment is not stable. Please try operating the scale on a more stable surface and be sure nothing is on the tray or stuck under the tray when you turn it on. If this situation persists, it may be an indication of fatal load cell damage. Try calibrating the scale - if this does not work please follow the warranty.

Although the P.G. is designed to be extremely durable, It's important that you never overload or drop/shock the scale. Scales are delicate instruments and unlike Cellular phones, scales have delicate sensors that determine how much an item weighs. If you drop or shock your scale, these sensors "feel" the shock and are sometimes destroyed. This happens with all digital scales. We design our scales to be as resistant to shock or drops as possible, however there is no way for us to protect 100% against load cell or sensor damage. A well-treated scale will provide years of reliable and accurate weighing. However an abused scale will only work until it's sensors are damaged.