

# GemOro AuRACLE™

## AGT1 GOLD & PLATINUM TESTER

Having trouble? Call 800.527.0719 or 214.351.0380 and we will gladly assist you!

### **The AGT1 WILL NOT WORK if you do not follow these easy steps:**

#### QUICK START GUIDE

##### **STEP 1: 2-MINUTE WARM UP**

- After the batteries are installed and the pen probe is plugged into the unit, turn on the AGT1 and allow a 2-minute warm up period PRIOR to calibrating. If a proper warm up time is not given it will not test accurately.

##### **STEP 2: CHECK PEN PROBE**

- Remove the pen probe cap and check that it is working by holding the pen upright and gently touching the probe tip to the surface of the testing plate. The LEDs on the bar graph should react by lighting up and climbing from right to left and finally settling at the NA reading. If this does not occur with several attempts, there may be a problem with the pen probe. In the event that you must replace the pen probe, you will need to repeat the start-up process.

##### **STEP 3: CALIBRATION PROCESS**

- Always CALIBRATE the AGT1 each time it is turned on and periodically while in use.
- Use ONLY .583 to .585 14K YELLOW GOLD to calibrate. A non-plated/non-flashed piece of 14K yellow gold is the best thing to use.
- FILE a small area on the 14K yellow gold calibration piece and rest it on the testing plate with the filed area facing up.
- Lightly hold the pen probe tip to the filed area on the calibration piece until the reading settles.
- Press the CALIBRATION button once and hold it down until the green light labeled CALIBRATED lights up, and the green light in the center of the 14K range simultaneously lights up. This may require 3-5 calibration times before the calibration locks in. If the center light in the 14K doesn't light up, it is not calibrated and will not test correctly throughout its range.
- Quickly remove the pen probe from the calibration piece.

##### **STEP 4: RE-CHECK READINESS**

- Touch the pen probe tip to the gold again to make sure that your calibration piece now tests correctly in the center of the 14K range. The AGT1 is now calibrated and ready to use.
- If it does not test correctly when re-checking, dab the pen tip clean on a dry paper towel and repeat step 2. Trying an alternate piece of 14K yellow gold may also fix the problem.

##### **STEP 5: TESTING METALS**

- To test metal, first file a small area on the metal and rest it on the testing plate with the filed area facing up.
- Hold the pen probe tip to the filed area on the metal until the reading settles. Once it settles, check the reading and quickly remove the pen probe from the metal. Remember to recalibrate the AGT1 periodically while in use.

Watch the online AGT1 instructional video at <http://sykessler.com/goldtesterWEBstreaming.mov>

# NEED LIVE HELP?

We will gladly walk you through the process!

**CALL 800.527.0719**

International 214.351.0380

## TROUBLESHOOTING & HELPFUL TIPS

### **REPLACE PROBE LIGHT ON?**

**Recalibration will typically fix this.** Make sure the pen probe felt tip is clean by wiping it with a dry paper towel and then follow the calibration step on #2 of the Quick Start Guide or as listed in the Owner's Manual.

### **REGULAR CLEANING**

The pen probe contains a special saline solution that is safe, non-acidic, and non-toxic. Remove salt crystal build-up by dabbing and wiping the pen probe felt tip with a clean, dry paper towel. Using a warm, moist paper towel wipe off any salt crystal build-up from the calibration piece and the AGT1 testing plate area only. Dry both thoroughly.

### **FILE ALL METAL BEFORE TESTING**

Gold, platinum, gold-plated, gold-filled and tungsten **MUST BE FILED** before testing to produce accurate results. This is a surface tester and the tester will read gold plated as solid gold if not filed first.

### **2-MINUTE WARM UP AND CALIBRATION**

Each time the AGT1 is turned ON allow a minimum **2-MINUTE WARM UP PERIOD PRIOR TO CALIBRATING**. The AGT1 must always be calibrated before use. It is also necessary to recalibrate periodically while in use to ensure consistent accuracy.

**IMPORTANT NOTE:** If the green LED does not light up in the center of the 14K range, this indicates that the calibration was not successful and the AGT1 will not provide accurate test results. If repeated attempts are unsuccessful, it is likely your calibration piece may have a flashing on it or something that makes the reading inconsistent so an alternate calibration piece should be tried. It could also indicate an AGT1 circuit board failure or that the pen probe needs to be replaced. Please call our helpline and we will gladly assist you to troubleshoot and fix any problems you may encounter!

## OTHER PRECIOUS METALS

**TUNGSTEN:** Be aware that if tungsten isn't filed first it may test as platinum, but if filed it will test as NA. **ALWAYS FILE FIRST!**

**RHODIUM:** Be aware that rhodium will react as platinum on the AGT1. It is rarely used as solid finished jewelry, but instead is commonly used as a plating material to make white gold appear whiter. If 14K is plated with rhodium and filed it will test accurately or possibly as a higher karat than marked since it is taking an average reading of the two metals. **ALWAYS FILE IT FIRST!** If white gold tests higher than marked, it is probably rhodium plated.

**PALLADIUM:** Be aware that palladium will react as platinum on the AGT1. In the case of palladium being mixed with white gold, testing it will slowly drive the reading up to a higher karat. **ALWAYS FILE IT FIRST!** If you see a slow rising of the karat to a higher level than marked, it is probably mixed with palladium.

**WHITE GOLD WITH HIGH NICKEL CONTENT:** White gold with high nickel content may test as a lower karat than marked. While it could be under karat gold, it is likely the karat marked.

**READ THE COMPLETE INSTRUCTIONS BEFORE USING AGT1!**