



# AuRACLE<sup>®</sup> PRO

Digital Gold & Platinum Tester

QUICK OPERATION GUIDE  
& COMPLETE USER MANUAL

# GEMORO AuRACLE PRO CE

## Digital Gold & Platinum Tester

### QUICK OPERATION GUIDE

Congratulations on your purchase of the advanced **AuRACLE PRO** digital gold and platinum tester from **GEMORO Superior Instruments**, the most trusted name in testing instrumentation for the jewelry industry.

The following is your testers QUICK OPERATION GUIDE. For more detailed information on its use, please scan the QR code or click here to see the INSTRUCTIONAL VIDEO:



#### **STEP 1: POWER ON**

After the AC adapter and/or batteries are installed, and the pen probe is fully plugged into the unit, turn the AuRACLE PRO on by pushing the MODE button. The LCD display will then show “Ready”.

#### **STEP 2: CALIBRATION PROCEDURE**

Remove the pen probe cap and wipe any excess solution off the felt tip with a paper towel. File a piece of 18K YELLOW GOLD and place it on the testing plate, then press the CAL button and the display will show “CALIBRATION 18K”, and from here you will touch the pen probe to the filed area. The display will then quickly show (within 20 seconds) “DONE” when the calibration process has been completed. **Note that this process may need to be repeated 1-2 times.** The AuRACLE PRO will then be calibrated and ready to test.

#### **STEP 3: TESTING GOLD AND PLATINUM**

- For best results, it is recommended to file a small area on the surface of the jewelry being tested, and then rest it on the testing plate with the filed area facing up.
- Touch and hold the pen probe to the filed area until the LCD display quickly settles on a karat value, Platinum, or Not Gold. It is recommended to hold the jewelry on the testing plate to stabilize it, and to make good contact with the pen probe and the metal being tested.
- There are 2 testing modes on the AuRACLE PRO, the STANDARD MODE and ENHANCED MODE. You can toggle between each mode by pressing the MODE button.
- ENHANCED MODE—This mode provides the most information for users, while indicating karat values in 8K, 10K, 14K, 18K, 22K, and 24K, as well as platinum. It shows the gold karat percentage, along with an innovative new feature at the bottom of the display, a bar graph that shows you where in the karat range the gold falls. (Example: if it is in the low, middle, or high karat value within the 14K range).
- STANDARD MODE—This is the factory set default mode, which gives the same information as the ENHANCED MODE, but without showing the percentage feature.

- The AuRACLE technology is calibrated to yellow gold. Due to inconsistencies in the types and percentages of alloys used in producing white gold (silver, nickel, etc.), it potentially may test slightly lower than marked.
- When you are finished testing, always replace the pen probe cap until it snaps on to prevent it from drying out.

#### **STEP 4: PRO POWER OFF**

To turn the AuRACLE PRO off, press and hold the MODE button. The tester also has an auto-off feature when using battery power and will automatically turn itself off in 10 minutes if not used.

**AuRACLE PEN PROBES ARE NOT INTERCHANGEABLE. ONLY USE THE “GOLD LABEL” AuRACLE PRO REPLACEMENT PEN PROBES WITH THIS DEVICE (Item #2018).**

## **COMPLETE USER MANUAL**

Congratulations on your purchase of the **AuRACLE PRO** digital gold and platinum tester from **GEMORO Superior Instruments**, the most trusted name in testing instrumentation for the jewelry industry. The enhanced AuRACLE PRO is the latest generation of GEMORO testers that utilize the PATENTED AuRACLE technology.

The **GEMORO AuRACLE PRO** with its superior features makes using the world’s best gold and platinum tester technology even better!

- Tests all colors of gold from 8K to 24K (8K, 10K, 14K, 18K, 22K, and 24K) with **20% IMPROVED ACCURACY** Tests platinum
- **INCREASED ACCURACY WHEN TESTING HIGH-KARAT GOLD**
- Dynamic alphanumeric LCD display shows karat value and gold percentage
- Innovative bar graph that shows you where in the karat range the gold falls. (Example: if it is in the low, middle, or high karat value within the 14K range).
- Follow easy steps to identify non-gold, gold plate, and gold filled as NOT GOLD
- To perform a test simply touch the pen probe to filed jewelry
- Dual test modes—Standard Mode and Enhanced Mode
- Easy one-step calibration using 18K yellow gold (optional accessory sold separately Item #2002-18K)
- Sleek, contoured, ergonomic design is compact and portable
- Built-in storage compartment for pen probe
- Easy-to-read large LCD display
- Smart two-button control panel
- Data port connector for software updates and peripherals
- Auto-check pen probe and battery usage life percentage functions
- Low battery indicator
- Replaceable pen probe provides thousands of tests with proper care

- Powered by a 9V alkaline battery (not included) or the supplied 100V-240V multi-voltage AC adapter (excluded for CE countries)
- Includes: AuRACLE Analyzer, pen probe, jewelers file, and AC adapter (excluded for CE countries)
- One-year limited warranty

### AURACLE PRO DIAGRAM

1. Backlit LCD Display
2. Calibration Button
3. Power/Mode Button
4. Data Port (Factory Use Only)
5. AC Adapter Receptacle
6. Testing Plate
7. Pen Probe
8. Pen Probe Protective Cap
9. Pen Probe Storage Compartment
10. Battery Compartment
11. AC Adapter (excluded for CE countries)
12. File



## **SPECIFICATIONS:**

- Working Voltage: DC 9V (1) × 9V alkaline battery (approximately 11.5 hours of continuous use).
- Power Adapter Specifications: **INPUT:** 100 – 240V 50 – 60Hz 0.2A Max **OUTPUT:** 9V 0.3A - \*THIS GENERIC AC ADAPTER IS READILY AVAILABLE ONLINE.
- Warm-Up Stabilization Time: Approximately 3 seconds.
- Ideal Working Temperature: 65F to 75F.
- Ideal Air Relative Humidity: 25% to 50%. As with any electronics, do not use the AuRACLE PRO in or around water.
- STATIC DISCHARGE – This sensitive instrument could have reactions to high static environments. If the AuRACLE PRO is subjected to static discharge, the display may freeze or lock. To correct this, simply power-cycle the unit. If the unit will regularly become subjected to high static, consider using a grounding bracelet to safeguard the unit from such conditions.

## **CAUTION:**

Disassembling the AuRACLE PRO other than opening the battery compartment door for battery replacement will void the warranty.

## **GENERAL DATA:**

- Cable for AC/DC adapter: Country-specific plug
- Mean sea level: Can be used up to 4000 m above mean sea level
- Range of application: Use only indoors in dry locations
- Environmental conditions: Height above mean sea level: Depending on the power adapter (up to 2000 or 4000 m)
- Ambient temperature: Operating conditions for ordinary lab application: +10 °C (+50°F) to 30 °C (86°F)
- Relative air humidity: Max. 80% up to 31 °C, linearly decreasing to 50% at 40 °C, non-condensing

# **DETAILED OPERATION INSTRUCTIONS**

## **1. BATTERY AND AC ADAPTER INSTALLATION**

Install a 9V alkaline battery (not included) as follows. First, always be mindful that the AuRACLE PRO is a delicate instrument and can be broken if it is not handled with care. Open the battery compartment door located on the bottom side of the unit by pressing and then sliding the battery compartment door off with your thumbs. Remove the battery connector and attach a 9V alkaline battery to it with the direction of the positive (+) and negative (-) polarity correctly positioned. Reinsert the battery and wiring back into the compartment so that the door may be replaced. Replace the battery compartment door. To conserve the battery life, be certain to always power down the AuRACLE PRO when not in use.

## **2. POWERING ON / OFF**

The AuRACLE PRO may be powered by either its AC adapter or a 9V alkaline battery. When an AC adapter is installed the AuRACLE PRO will automatically be powered by it while preserving the battery life. Alternatively, if no AC adapter is being used and the battery is installed, the tester will be powered by it. To power on the AuRACLE PRO simply press the Power/Mode button. When the unit is powered on, it will run through a quick boot sequence (“AuRACLE PRO” will show on the display) and then will default to the “Standard Mode” setting. To power off the AuRACLE PRO press and hold the Power/Mode button for more than two seconds. The display will show a 5 second count down timer. When the timer reaches zero then it will power off. Pressing either button during the countdown will abort the process and return the AuRACLE PRO to normal operation.

## **3. LOW BATTERY INDICATION**

When the battery power drops to a low level, a “B” will start flashing on the upper right side of the display indicating that a new battery should quickly be inserted to ensure maximum testing accuracy.

## **4. MODES OF OPERATION**

The AuRACLE PRO has two testing modes of operation that are described below. Press the Power/ Mode button to toggle between these modes: Standard Mode and Enhanced Mode.

### **ENHANCED MODE**

This mode provides the most information for users, while indicating karat values in 8K, 10K, 14K, 18K, 22K, and 24K, as well as platinum. It shows the gold karat percentage, along with an innovative new feature at the bottom of the display, a bar graph that shows you where in the karat range the gold falls. (Example: if it is in the low, middle, or high karat value within the 14K range).

### **STANDARD MODE**

This is the factory default mode, which gives the same information as the Enhanced Mode, but without showing the percentage feature.

### **SMART TWO BUTTON CONTROL FUNCTIONS**

**Power/Mode Button (Left)** Pressing this button will toggle between the two operating modes, Standard Mode, and Enhanced Mode. Pressing this button for more than two seconds will initiate the unit's 5 second shut down timer. Pressing any key before the timer reaches zero will return the AuRACLE PRO to normal operation.

**CAL BUTTON (Right)** By pressing this button the pen probe calibration process will be initiated. The AuRACLE PRO must be calibrated with an 18K yellow gold sample. Only yellow gold may be used to calibrate this instrument.

**PEN PROBE CALIBRATION** Before using the AuRACLE PRO, it must be calibrated to the pen probe being used. It is important to recognize that the chemistry in each pen probe is slightly different and that it is constantly changing over time as it is exposed to gold and other metals, contaminants, the environment, and dirt. As the chemistry in the pen probe changes it may become necessary to recalibrate the AuRACLE PRO to the pen probe's chemistry at that time, which is simple to do. You must use an 18K yellow gold sample to calibrate the tester, and we recommend that the gold calibration piece be filed just prior to doing so. A short press of the CAL button will initiate the calibration process. The calibration process can be performed in either operating mode at any time and will return to that mode once complete. When initiated, a countdown timer will appear on the lower line of the LCD display. Place the gold you are using to calibrate the AuRACLE PRO on the testing plate with the filed area facing up. Steadily touch the end of the pen probe's felt tip to the filed area on the gold and once the process has been completed the LCD display will read "Success!". **Note that this process may need to be repeated 1-2 times.** The tester will wait approximately 8 seconds for the pen probe to touch the gold calibration sample and if this is not done within that period the process will be aborted. Once the pen probe touches the gold sample, the AuRACLE PRO will quickly monitor the readings and wait for stability before it will be considered a successful calibration. If the pen probe's reading doesn't stabilize within 20 seconds, the operation will fail and abort. A failed calibration may indicate a defective pen probe.

## ADDITIONAL INSTRUCTIONS

**USE COMMONSENSE BEFORE INTERPRETING THE TEST RESULTS.** You should always follow some commonsense guidelines before making your final determination of the karat value or authenticity of the precious metal being tested. Please keep in mind that those misrepresenting fake jewelry as real can be extremely clever and will use many tricks to make you think it is real.

**GUIDELINE A.** Check the markings on the piece for a karat stamp (10K or .417, 14K or .585, 18K or .750, 22K or .916, 24K or .999, GF or gold-filled, GEP or gold electroplated, YGF or yellow gold-filled, RGP or rolled gold plated, etc.). If the test results indicate anything different than the stamp, the metal should be suspect.

**GUIDELINE B.** Check the weight of the metal you are about to test and if it seems too light, while it could be hollow gold, it should be suspect as it may be costume jewelry, gold-plated or gold-filled. Gold is a dense metal and has an associated greater weight than most other non-precious metals. Platinum is an even denser metal than gold, while weighing approximately 1/3 more than 18K gold. Be aware that tungsten/stainless steel is also a dense metal, and that often times it may be used at the core of the jewelry, under a layer of gold.

**GUIDELINE C.** Check the color of yellow gold and be aware that non-gold base metals are often flashed or gold-plated with 24K gold to enhance its color and consequently the gold color will look too yellow. Since 24K gold is a rich yellow color and this pure gold is very uncommon in jewelry, any rich yellow gold color should be suspect. Look for tarnishing or variations in the color and finish of the jewelry as a sign of it being a fake.

**GUIDELINE D.** Check the clasp used on the jewelry. Costume jewelry often has a spring ring style clasp, and this should be suspect. Karat jewelry often will have a lobster style clasp. Do not test the clasp only as it is common for a karat gold clasp to be attached to a fake gold necklace or bracelet to fool you.

## **TROUBLESHOOTING & HELPFUL TIPS**

The AuRACLE PRO should always be calibrated before using. It may also be necessary to recalibrate it as needed. Also, periodically wipe the pen probe's felt tip on a dry paper towel to clean it if inconsistent results are experienced. **IT IS IMPORTANT TO RECOGNIZE THAT THE CHEMISTRY IN THE PEN PROBE IS CONSTANTLY CHANGING OVER TIME AS IT IS EXPOSED TO GOLD AND OTHER METALS, CONTAMINANT'S, THE ENVIRONMENT AND DIRT.** The genius of the AuRACLE technology is that by wiping the pen probes felt tip on a dry paper towel to clean it, and then recalibrating the AuRACLE PRO periodically, this allows the tester to adjust itself to the chemistry in the pen probe at that time. Since the AuRACLE PRO can be calibrated in only a matter of seconds and the pen probe's felt tip may be quickly and easily cleaned when needed, these simple steps should be a regular part of your testing and problem-solving process.

If the AuRACLE PRO will not calibrate, the pen probe may be defective, spent or in need of replacement. Please note that it is recommended for best results that you should consider replacing the pen probe if it is excessively worn or becomes overly dirty from repeated exposure to costume jewelry, fake gold or other contaminates. A pen probe in this condition may begin to deliver erratic readings and these are good indicators that it should be replaced.

### **REGULAR CLEANING OF THE PEN PROBE'S FELT TIP AND TESTING PLATE:**

Always use a dry paper towel to wipe off the gold particle filings and other metal particles coming from costume, gold-plated or gold-filled jewelry that may remain on the pen probe's felt tip to avoid contamination. The metal particles remaining on the pen probe's felt tip that are naturally rubbed off during the testing process, and especially metal filings from other karat gold, copper, brass, or other base metals that have been filed and remain on the pen probe's felt tip could potentially cause incorrect test results. Therefore, regular cleaning is important.

The pen probe contains a special saline solution that is safe, non-acidic, and non-toxic. Remove salt crystal buildup by dabbing the pen probe's felt tip with a clean

and dry paper towel. Salt crystal buildup is a natural occurrence with this device. While using a dry paper towel, wipe off any salt crystal buildup from the 18K yellow gold calibration piece and the AuRACLE PRO testing plate area. **Be aware that the pen probe solution may potentially leave a stain on the testing plate if not wiped off immediately after it makes contact, so cleaning it right after this occurs is advised.** While this staining may occur, it will not impact the accuracy of the AuRACLE PRO. **Never expose the pen probe's felt tip to water or other chemicals.** Always replace the pen probe cap until it snaps on when not in use.

### **FOR BEST RESULTS FILE ALL METAL BEFORE TESTING AND CLEAN THE FILE:**

**The AuRACLE PRO is a surface tester, so consequently the tester may test gold-plated and gold-filled as solid gold if not filed to expose the base metal.** Depending on the thickness of the gold on the surface of the jewelry, cutting or sawing through the surface may be required to expose the base metal. Gold, platinum, gold-plated, gold-filled, tungsten and stainless steel must be filed below the surface before testing to produce accurate results. **Always wipe off the file after use.** Be aware that gold and other metal particles on the file could cause contamination from the metal to spread to the next piece you are testing if it is not regularly cleaned off.

### **NO REACTION WHEN TESTING:**

This is an indication that either the pen probe isn't plugged into the AuRACLE PRO all the way or that the material you are testing is non-conductive (example plastic).

### **TEST RESULTS ARE TOO HIGH:**

This is an indication that the AuRACLE PRO is out of calibration, or perhaps there is a high presence of silver, palladium, or rhodium on the gold you are testing.

## **OTHER PRECIOUS METALS**

### **TUNGSTEN AND STAINLESS STEEL:**

Be aware that if tungsten or stainless steel isn't filed first it may test in the high karat range or even as platinum, but if it is filed it will then test as Not Gold. **ALWAYS FILE IT FIRST!**

### **RHODIUM:**

Be aware that rhodium will react as platinum on the AuRACLE PRO. It is rarely used as solid finished jewelry, but instead it is commonly used as a plating material to make white gold or platinum appear brighter or whiter. If white gold is plated with rhodium and filed, it will then 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:**

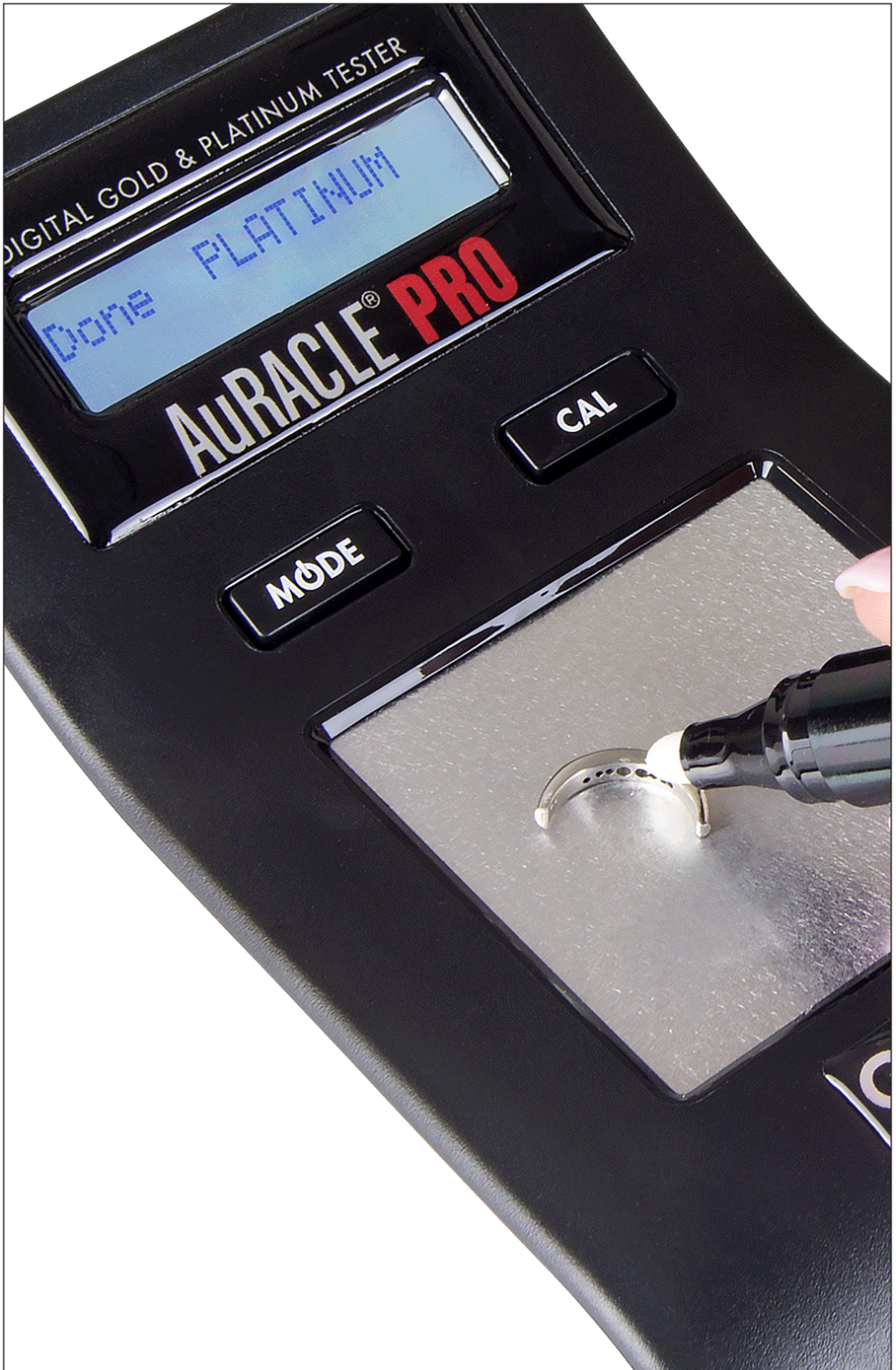
Be aware that pure palladium will test somewhere between 18K and 24K on the AuRACLE PRO. In the case of palladium being mixed with white gold, it will drive the reading up to a higher karat than it is. If you see a reading on white gold that is higher than marked, it may very well be mixed with palladium.

### **WHITE GOLD WITH HIGH NICKEL OR HIGH SILVER CONTENT:**

Be aware that white gold with a high nickel content may test as a lower karat than marked. While it could be under karat gold in this instance, it is likely the karat marked. White gold commonly has a 4% to 7% silver content. If white gold has a higher silver content above 7% it may test as a slightly higher karat than marked.

## **WARRANTY**

Your AuRACLE PRO comes with a **ONE YEAR LIMITED WARRANTY** against defects in materials and workmanship as determined by the factory. The pen probe is covered by a 30-DAY limited warranty against defects in materials and workmanship as determined by the factory. The pen probe is not covered against overuse, misuse and drying out due to the user not replacing the protective cap after use. The purchaser shall incur the cost for return postage, insurance and handling for all warranty and non-warranty repairs and/or replacements. Warranty repairs and/or replacements will be shipped back to the customer FOB Destination to the location of the customer's choosing if located within the Continental United States. Non-warranty repairs will be shipped back to the customer FOB Factory. Should the customer require the repair and/or replacement unit to be shipped outside the Continental United States, the customer will be required to pay any related shipping charges and any related taxes/duties for the respective destination country regardless of whether it is a warranty or non-warranty claim.



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