

GEMORO AuRACLE ANALYZER

GOLD & PLATINUM TESTER

QUICK OPERATION GUIDE
& FULL MANUAL





AuRACLE ANALYZER CE

1. POWER/CALIBRATION button
2. Screen
3. Testing plate
4. Pen probe
5. AC Adapter (excluded for CE countries)
6. File

AURACLE ANALYZER QUICK START GUIDE

STEP 1: ANALYZER POWER ON

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

STEP 2: CALIBRATION PROCEEDURE

Remove the pen probe cap and wipe any excess solution off the felt tip with a paper towel. Press the POWER/CALIBRATION button again and the display will show “Touch pen to 18K sample”. Place a filed piece of **18K YELLOW GOLD** on the testing plate and touch the pen probe to the filed area and wait for the display to show “Done”. **Note that this process may need to be repeated 1-2 times.** The ANALYZER will then be calibrated and ready to test.

STEP 3: TESTING GOLD & PLATINUM

- For best results, always file a small area on the surface of the metal being tested and rest it on the testing plate with the filed area facing up.
- Touch and hold the pen probe to the filed area until the LED display settles on a karat value. Platinum will test as PT and non-gold as NA. 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.
- The AuRACLE technology is calibrated to yellow gold. Due to inconsistencies in alloys used in white gold, the karat value displayed from the test may be slightly lower than marked.
- When you are finished testing, always replace the pen probe cap until it snaps on to keep it from drying out.

STEP 4: ANALYZER POWER OFF & BATTERY POWER LEVEL CHECK

To turn the ANALYZER off, press and hold the POWER/CALIBRATION 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. While holding the POWER/CALIBRATION button down, the display will indicate the remaining battery power level.

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

COMPLETE USER MANUAL

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

The **GEMORO AuRACLE ANALYZER** with its superior features makes using the world's best gold & platinum tester technology even better!

- Tests all colors of gold from 6K to 24K with **20% IMPROVED ACCURACY**
- Tests platinum
- Simply touch the pen probe to the metal and an LED indicates the test results
- Increased accuracy when testing high karat gold
- Follow simple steps to identify non-gold, gold plate, and gold-filled as NA
- Easy one-button operation with auto-off feature
- User-friendly instructional display
- Calibrates with 18K YELLOW GOLD (not included)
- Immediate test results—no waiting between tests
- Enhanced Pen Probe (Faster testing results. Faster calibration. Longer time between calibrations.)
- Pen probe performs thousands of tests with proper care

- Battery power level indication feature
- Compact and portable
- 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 – PATENTED

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%.

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

CAUTION:

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

INSTRUCTIONAL VIDEO:

Please scan QR code to watch the instructional video:



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. Test results below the 10K range must be interpreted by the user and estimated whether it is 6K-9K.

GUIDELINE B. Be aware that any piece that tests as NA is not gold.

GUIDELINE C. 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.

GUIDELINE D. 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 E. 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 ANALYZER must always be calibrated before using. It may also be necessary to recalibrate the ANALYZER as needed. Also, periodically wipe the pen probe's felt tip on a 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 cleaning the felt tip on the pen probe as needed and then recalibrating the ANALYZER periodically, this allows the ANALYZER to adjust itself to the chemistry in the pen probe at that time. Since the ANALYZER can be calibrated in only a matter of seconds or the pen probe's felt tip may be quickly and easily cleaned if needed, these simple steps should be a regular part of your testing process and problem solving.

If the ANALYZER 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 worn or becomes excessively dirty from repeated exposure to costume jewelry, fake gold or other contaminants. 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 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. Using a paper towel, wipe off any salt crystal buildup from the 18K yellow gold calibration piece and the ANALYZER 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 ANALYZER. **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 ANALYZER 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. 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.** 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. Do not file the metal over the ANALYZER testing plate, as particles of the metal being filed will fall on it and potentially influence test results.

NO MOVEMENT OF LEDS WHEN TESTING: This is an indication that either the pen probe isn't plugged into the ANALYZER 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 ANALYZER 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 NA. **ALWAYS FILE IT FIRST!**

RHODIUM: Be aware that rhodium will react as platinum on the ANALYZER. 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 ANALYZER. 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, while reacting with a slow and consistent rise in the reading as a telltale sign.

WARRANTY

Your ANALYZER 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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