

GXL-24PRO™

Owner's Manual

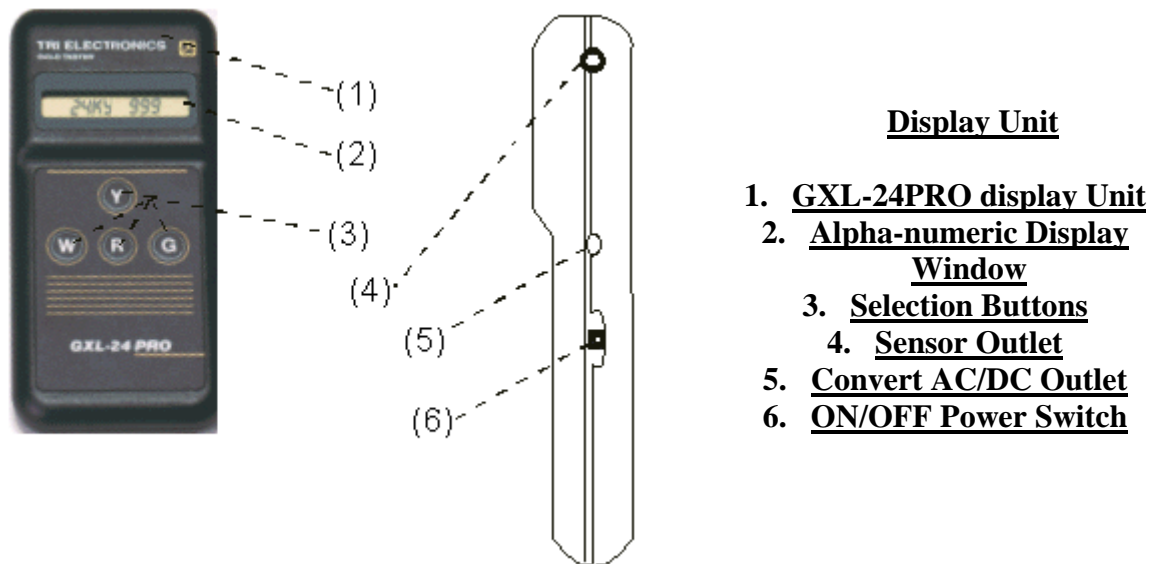
INTRODUCTION

The GXL-24PRO GOLD TESTER™ is a high technology professional digital instrument, developed by Tri Electronics, Inc. for efficient, non-destructive determination of gold karat values from 6 to 24 karats.

The GXL-24PRO GOLD TESTER™ determines platinum and the gold karatage in the 6-24 karat range in alloys commonly used in the jewelry industry.

Besides determining the karatage of gold, the Gold Tester is also able to distinguish gold plated and gold-filled items.

THE GXL-24PRO DISPLAY UNIT



THE MECHANICAL SENSOR

The Mechanical Sensor for the GXL-24PRO Gold Tester consists of two parts: (1) the sensor body; (2) a polyethylene tube with gel. **The polyethylene tube must be placed inside of the sensor's body before beginning a test.**

When using the Sensor, be sure that:

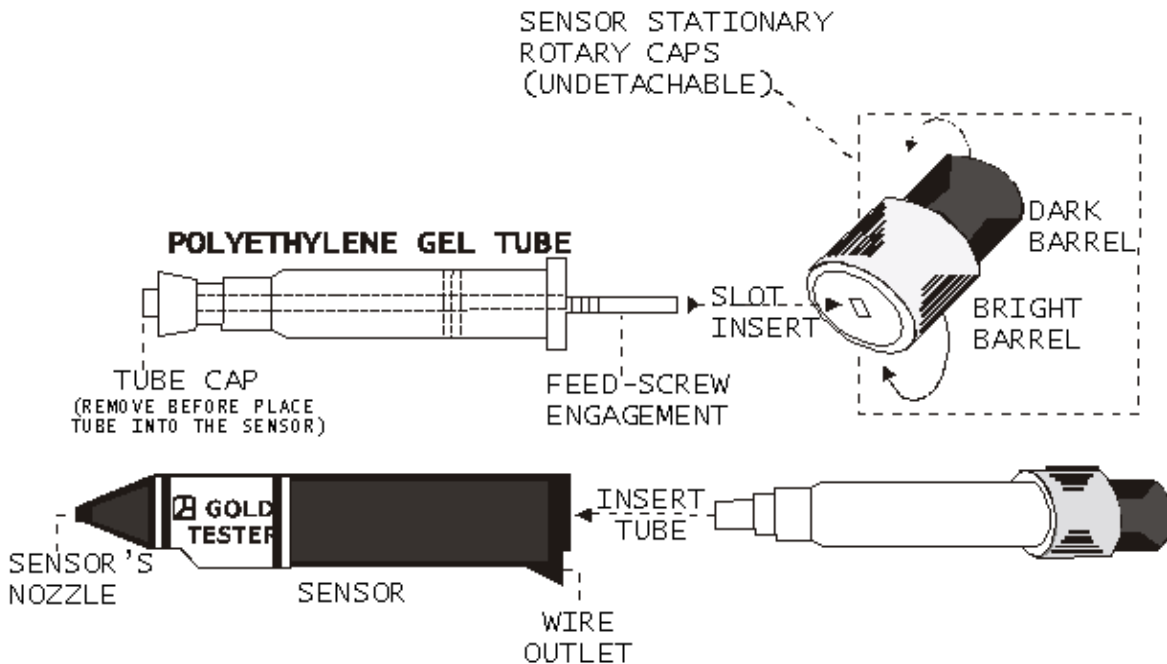
- 1. The sensor nozzle platinum contact and slots are clean. Use a cotton swab moistened with cleaner to clean the platinum contact and dry it before commencing tests and after every 6-8 repetitive tests.**
- 2. Dispense a drop of gel before the start of each test.**
- 3. It is recommended that the sensor be thoroughly cleaned with Tri SC-10 sensor**

cleaner when gel tube is changed or if gel is backing up around the plunger. The cleaner can be obtained from Tri Electronics or from your Tri dealer.

LOADING/CHANGING THE POLYETHYLENE GEL TUBE

1. Take off the nose cone cap (See Diagram).
2. Remove the Stationary Cap by turning the Stationary Cap (light colored barrel) counter clockwise. *Please remember that the stationary Cap and the Rotary Cap are undetachable.*
3. Insert the Feed Screw Engagement into the appropriate slot of the Rotary Cap. Be sure that the Feed Screw is fully engaged.
4. Take off Tube Cap.
5. Insert the polyethylene gel tube, until it is fully lodged in the sensor and turn the light colored barrel clockwise until fully fastened. Do not turn the dark colored top barrel clockwise or it will damage the mechanism.
6. Turn the dark colored top barrel counter clockwise until the first drop of gel appears at the sensor nozzle (about 10-20 times to fill the cone).

Diagram shows each part of the mechanical sensor.



Sensor and Polyethylene Gel tube

OPERATION PROCEDURE

1. Load the polyethylene gel tube into the sensor.
2. Connect the long black wire to the sensor's plug outlet, the short black wire connector to the display unit, and the red wire to the testing plate.

3. *Turn the unit "ON". The unit should display "Clean sensor tip".*
4. *Before the start of testing, use the sensor nozzle cleaner or any small sharp instrument to remove dried or used gel from the dispenser opening and slots and clean the sensor tip thoroughly with a cotton swab wetted with alcohol, then dry the tip thoroughly.*
5. *Prepare the item for testing by thoroughly vigorously cleaning a spot on the jewelry with the eraser provided. When testing the 18-24K (750-999) gold, be sure that the eraser tip does not have a black deposit. Clean the eraser on a paper. Also clean the area on the item to be clipped and place cleaned item in clip.*
6. *The testing point on the object should be close to, BUT NOT TOUCHING, the alligator clip.*
7. *Holding the sensor on the vertical position with the nozzle down, twist the Rotary Cap counter clockwise, a click at a time, until a drop of gel appears on the tip. Wipe this first drop of gel on the towel and turn (usually one or two clicks) until a fresh drop appears. Use a minimum amount of gel for testing, especially for high karatage gold tests (above 18k). After dispensing a small dome of gel on the sensor tip wipe the tip on a piece of tissue paper by touching the tip to the tissue while holding the sensor in a vertical position to the paper. Do NOT use a dome of gel or an amount of gel that causes excess gel to appear along the edge of the sensor tip while testing. If there is not a sufficient gel to test the instrument will read "TRY AGAIN", but will not give an erroneous reading. Do not let gel or sensor nozzle touch the alligator clip!*
8. *Maintain the sensor tip flat against the sample (perpendicular to sample) and hold firmly in the same position approximately five (5) seconds while the instrument displays the gold value in karat and European standard.*

SERVICE

If there are any problems regarding the GXL-24PRO, please contact us:

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