

INNOVATIVE TECHNOLOGIES

Gold Purity Density Testers

Product Range



TORONTECH

Gold Purity Density Testers

Overview

Torontech's Gold Purity Density Testers are **designed to provide precise measurements of gold purity and density**, offering unparalleled reliability for laboratories, jewelry workshops, and quality control facilities.

These instruments are equipped with advanced features such as **RS-232 & USB interfaces** for effortless data transfer, as well as infrared temperature sensors for automatic water temperature compensation. Designed for efficiency, they deliver accurate results in just two steps without requiring harmful chemicals, such as sulfuric acid, ensuring a safer and more eco-friendly testing process.

This versatile product range **accommodates a wide variety of sample sizes and weights**, from large gold bars weighing over a kilogram to fine gold sand.

With their robust construction and intuitive operation, these testers are suitable for both high-volume and small-scale testing needs. Each model is tailored to specific requirements, allowing users to perform gold Karat determination and assess the purity of precious metals with outstanding precision.

By combining advanced technology with user-friendly features, Torontech's Gold Purity Density Testers streamline the testing process, reducing complexity while maintaining the highest standards of accuracy. Whether handling intricate jewelry pieces or bulk gold specimens, these instruments deliver consistent results, making them an indispensable asset in gold quality evaluation.

PRODUCT RANGE



TTD-1200K



TTD-153K



TTD-214K



TTD-300K/600K



TTD-LK



TTD-SLK

FEATURES/ADVANTAGES

► **Seamless Connectivity and Automated Adjustments:**

All Gold Purity Density Testers are equipped with RS-232 and USB interfaces for seamless data transfer. Infrared temperature sensors automatically detect and compensate for water temperature variations, ensuring consistent accuracy.

► **Efficient and Accurate Gold Purity Testing:**

Using the Archimedean principle, all models deliver precise measurements of precious metal purity percentages and gold Karat values in just two steps. The TTD-1200K accommodates larger samples like gold bars, while the TTD-153K and TTD-214K are optimized for lightweight and general-size samples.

► **Eco-Friendly and Contamination-Free Operation:**

The testers eliminate the need for harmful chemicals like sulfuric acid and leave no residue after testing, providing a safe and environmentally friendly solution for metal analysis.

► **Versatile Multi-Metal Testing Modes:**

Each tester supports multiple modes for analyzing gold, platinum, and other precious metals. Adjustable settings for Karat values (1K to 24K) and platinum testing ranges (1 to 1000) make these testers suitable for diverse applications.

► **User-Friendly Software Integration:**

The integrated software displays gold Karat numbers and purity percentages for various alloy combinations, including gold-copper-silver and gold-silver alloys. The TTD-LK and TTD-SLK are suitable for high-volume applications, providing reliable results for professional environments.

► **Reliable Design for Accuracy:**

Each tester includes advanced features like infrared sensors and optimized internal mechanisms to minimize errors, ensuring accurate and consistent results for a variety of sample types and sizes.

TECHNICAL SPECIFICATIONS

| DETAILS | | SPECIFICATIONS | | | | | | | | | | | | |
|-------------------------|--------|-----------------------------------|-------------------------|--------------------------------------|-----------------------------------|----------|-----------------|------------|------------|------------|-----------------|-------------|-------------|------|
| Model | | TTD-1200K | TTD-153K | TTD-214K | TTD-300/600K | | TTD-LK | | | | TTD-SLK | | | |
| | | | | | TTD-300K | TTD-600K | TTD-LK1500 | TTD-LK2000 | TTD-LK3000 | TTD-LK6000 | TTD-SLK2000 | TTD-SLK3000 | TTD-SLK6000 | |
| Max Weight | | 1200g | 150g | 210g | 300g | 600g | 1500g | 2000g | 3000g | 6000g | 2000g | 3000g | 6000g | |
| Weighing Precision | | 0.01g | 0.001g | 0.0001g | 0.01g | | 0.01g | | | | 0.1g | 0.01g | | 0.1g |
| Density Precision | | 0.001g/cm ³ | 0.0001g/cm ³ | 0.0001g/cm ³ | 0.001g/cm ³ | | | | | | | | | |
| Gold Mode Load Capacity | Karat | 1K and 0.1K display (switchable) | | 0.1K and 0.01K display (switchable) | 1K and 0.1K display (switchable) | | | | | | | | | |
| | Purity | 1% and 0.1% display (switchable) | | 0.1% and 0.01% display (switchable) | 1% and 0.1% display (switchable) | | | | | | | | | |
| PT Mode | PT | 25PT and 1PT display (switchable) | | 1PT and 0.1PT display (switchable) | 25PT and 1PT display (switchable) | | | | | | | | | |
| | Purity | 1% and 0.1% display (switchable) | | 0.11% and 0.01% display (switchable) | 1% and 0.1% display (switchable) | | | | | | | | | |
| Alloy Mode | | 1% and 0.1% display (switchable) | | 0.1% and 0.01% display (switchable) | 1% and 0.1% display (switchable) | | | | | | | | | |
| Dimensions (mm) | | 174 x 109 x 92 | 148 x 100 x 85 | | | | 210 x 170 x 120 | | | | 290 x 255 x 160 | | | |



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