

VERIMET® 7700 Portable Eddy Current Tester



Eddy Current Testing for Hardness of Ferrous Metals and Alloys

- Sorts Gears, Bolts, Spindles, Roller Bearings, Shafts, Sprockets and Similar Parts for Comparative Hardness, Heat Treatment, Case Depth and Material Mix
- Automatic (optimum) Set-Up using “Learn Mode”
- Choice of 11 different Test Frequencies
- Sort using Phase, Amplitude or both
- Internal Storage for 10 different Part Programs and 1,000 Data Sets
- Built-in SPC for Data Analysis
- Interchangeable Probes and Coils
- Stable Test Results, even in difficult Environments
- Version available for Automated Testing in Static Mode (Verimet® 7710)

Verimet® 7700 Portable Eddy Current Tester

The Verimet® 7700 is a Portable, Microprocessor-Based Eddy Current Instrument for Heat Treat Verification, Alloy Sorting, Hardness Inspection and Case Depth testing of Ferrous Metal parts. Versatile and Accurate, it offers improved capabilities for a wide range of applications. The instrument is compact, lightweight and battery-equipped... so it is just as easy to use in the laboratory as it is in tough production environments. Interchangeable Probes and Coils are available to match a range of testing applications and conditions.

APPLICATIONS:

Originally designed for the automotive, metallurgical and defense industries, the **Verimet 7700** effectively tests parts whenever material grade and heat treatment are critical to product integrity. A spot probe or encircling coil can be used, depending on the application. The feasibility of performing a successful sort can be determined in minutes, without extensive training or time-consuming tests.

FEATURES/BENEFITS:

- **LEARN MODE** — From a small number of accept/reject part tests, the instrument will automatically select the optimum test frequency, test method (phase or amplitude) and sort limits for testing.
- **HIGHLY PORTABLE** — The lightweight (6 lbs.) design of the Verimet 7700 makes on-location testing of large, bulky or difficult-to-move parts very simple.
- **STATISTICS** Built-in SPC capability is enhanced by the ability to download data in memory to floppy disks, hard drives or monitors for further analysis.
- **DUAL POWER SUPPLY** — A single battery charge permits up to 8 hours of continuous portable operation. An internal charging circuit is provided, along with an AC adapter for in-place

testing. Line voltages are easily switchable from 110 to 220 and vice versa.

- **MEMORY STORAGE** — Up to 10 individual test part set-ups can be stored and retrieved for rapid changeover from one part to another. Easily stores up to 1,000 test data sets.
- **VERSATILE TESTING** — The Verimet 7700 tests any size part from small-diameter needle bearings to huge tank turret bearing journals. Standard connectors allow quick changeover from probes to coils.

WARRANTY/FEASIBILITY:

All parts and workmanship are guaranteed for a full year from the date of purchase. Call today for a free trial with no obligation.

SPECIFICATIONS:

TEST PRINCIPLE: Eddy Current

TEST FREQUENCIES: 50 Hz, 100 Hz, 200 Hz, 300 Hz, 500 Hz, 1 kHz, 2 kHz, 3kHz, 5kHz, 10 kHz, 20 kHz

DISPLAY: Digital, Backlit LCD

POWER: Rechargeable nickel cadmium batteries with NC adapter; 110/220 volt A/C, 50/60 Hz

PROBES/ENCIRCLING COILS: Available in a variety of stock sizes or custom-built for special applications

OUTPUTS: RS-232, audible and visual accept/reject indicators

STATISTICS: 3 Sigma, X-bar and R charting plus downloading to other SPC programs

SIZE: 8.25" x 3.75" x 9.38" (21 cm x 9.5 cm x 23.8 cm)

WEIGHT: 6 lbs. (2.72 kg)

Automated Testing — Ask about the Verimet~ 7710, a similar model for automated testing in a static mode — it includes a special software package and I/O ports, to control machine functions for accept/reject conditions.

VERIMATION TECHNOLOGY, INC.

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