



EDDY CURRENT TESTING FOR NON-FERROUS METALS AND ALLOYS

VERIMET[®]
PORTABLE
CONDUCTIVITY TESTER
MODEL M4900C



NDT Supply.com, Inc.

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Verimation Technology, Inc.

- M4900C OVERVIEW -

The Verimet® M4900C is especially well-suited for measuring the conductivity of aluminum and aluminum alloys. It tracks the temperature coefficient (typically aluminum) using a single-knob control to adjust the readings. Compensation is accurate to 0.5% I.A.C.S. over the full range of 12% to 110% I.A.C.S. (5.75% to 52.8% MegaSiemens). The M4900C has an accuracy of 0.3% over the aluminum range of 30% to 62% I.A.C.S. The Verimet® M4900C tester works well on rough or finished surfaces, including forgings, castings, sheet stock and small parts of reasonable mass. Penetration depth is constant, irrespective of material or conductivity.

- FEATURES AND BENEFITS -

- Provides rapid conductivity testing for alloy content, heat treatment, material mixes, hardness and tensile strength.
- Unique, patented design offers quick, accurate, non-destructive testing for aluminum, copper, bronze and other non-ferrous metals.
- For metal ingots, forgings, castings, sheet stock and processed parts, including lithium/aluminum alloys.
- Single COMP knob adjustment for temperature compensation.
- Linear response meets or exceeds military and aircraft industry standards.
- Excellent lift-off range for rapid, non-contact testing.
- Adjustable temperature compensation circuitry with single knob adjustment for temperature variations.
- Linear response over the full instrument range.
- Linear response plot vs. curve of other instruments.
- Portable, using 12-18 hour rechargeable batteries with A/C charger/adaptor provided.
- Reliable performance with no need for periodic balance, null adjustment or sensitivity setting changes for difficult test conditions.

- CONSTRUCTION -

- The Verimet® M4900C electronics are housed in rugged, light-weight, cast aluminum cases that stand up well to hostile production environments.
- Mil-Spec type electronic components and assembly methods assure trouble-free operation.
- The Verimet® M4900C is optionally available in switch-able I.A.C.S. readings or in MegaSiemens.

Standards and Certifications:

For correct operation, a Conductivity Standard should be used within the range (% I.A.C.S.) at which testing is conducted. The standard we use are directly traceable to N.I.S.T. standards.

The available Conductivity Standards Values are: Approximately 23%, 30%, 37%, 48%, 59.8% and 100% IACS. Values are subject to change according to availability.

The Verimet® Portable Conductivity Tester, Model 4900C is a Certified Conductivity Test Instrument.

Size	6.75" x 3.75" x 2.75" (17.2 x 9.5 x 7.0cm)
Weight	2.5 lb. (1.13kg)
Penetration Depth	0.050" (1.27mm)
Range (I.A.C.S.)	12% to 110%
Lift-off	0.025 inch (0.6mm) max.
Accuracy	0.3% (Spec: 30% - 62%) 0.5% (Full Range)
Resolution	0.1%
Power Supply	Rechargeable Nickel Cadmium Batteries with A/C Adapter/ Battery Charger 115/60 Hz or 220/50 Hz
Probes	4900M216C probe, 7/16" (11.1mm) with 42" (107cm) cable
Readout	4 Digit LED Numeric Display

WARRANTY: All parts and workmanship are guaranteed for a full year from date of purchase. Email: info@verimation.com — www.verimation.com
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