

Advanced Test Equipment Corp. www.atecorp.com 800-404-ATEC (2832)

WR50-12: 50 Amp, 2 Channel Winding Resistance Meter with Demagnetization and Discharge

Features

Pure, filtered DC power source for the highest accuracy readings Highest Accuracy and Precision of any high current test system Complete, automatic calibration system and system diagnostics Automatic measurements of resistance from $0.00~\mu\Omega~\dots100~k\Omega$

Demagnetizing Circuit (Advanced design)

Microprocessor-based system with internal storage for over 10,000 test results

Data exchange via USB-Key or USB / RS Connection

Printing and storing of test results while the test system is measuring

Temperature channels with automatic resistance correction

Automatic, high efficiency cooling system to dissipate internal heat

Automatic shut off for over-temperature condition

Simple to operate color LCD touch screen with backlight

Panel-mounted Emergency Stop Switch

Fully automatic cooling curve analysis (option AHRT-01)

Fastest discharge time on the market

5-Year standard warranty



Accuracy _

Current Range	Measuring Range	Accuracy	Resolution
30 – 50A	0.00 μΩ 1.3 Ω	\pm 0.1% Rdg \pm 0.05 μ Ω	5 Digits or 0.05 μΩ
15 – 30A	$0.0\mu\Omega\dots3.3\Omega$	\pm 0.1% Rdg \pm 0.1 $\mu\Omega$	5 Digits or 0.1 μΩ
8 – 15A	0.0000 mΩ 6.3 Ω	\pm 0.1% Rdg \pm 0.2 $\mu\Omega$	5 Digits or 0.2 μΩ
3 - 8A	$0.0000~\text{m}\Omega\ldots16.7~\Omega$	\pm 0.1% Rdg \pm 0.5 $\mu\Omega$	5 Digits or 0.5 μΩ
1 – 3A	0.000 mΩ 47.2 Ω	\pm 0.1% Rdg \pm 1 $\mu\Omega$	5 Digits or 1 μΩ
0.7 – 1A	$0.000~\text{m}\Omega\dots71.4~\Omega$	\pm 0.1% Rdg \pm 2 $\mu\Omega$	5 Digits or 2 μΩ
0.3 - 0.7A	$0.000~\text{m}\Omega\dots167~\Omega$	\pm 0.1% Rdg \pm 5 $\mu\Omega$	5 Digits or 5 μΩ
0.1 - 0.3A	$0.00\text{m}\Omega\dots500\Omega$	\pm 0.1% Rdg \pm 10 $\mu\Omega$	5 Digits or 10 μΩ
25 – 100 mA	$0.00 \text{m}\Omega \ldots 2 \text{k}\Omega$	\pm 0.1% Rdg \pm 20 $\mu\Omega$	5 Digits or 20 μΩ
< 25 mA	$2~k\Omega \ldots 10~k\Omega$	\pm 0.2% Rdg \pm 200 m Ω	5 Digits or 200 m Ω
< 25 mA	10 kΩ 100 kΩ	\pm 0.8% Rdg \pm 20 Ω	4 Digits or 20 Ω

Specs

Size: L: 521 mm (20.5") W: 432 mm (17") H: 216 mm (8.5")

Weight: 17.2 kg (37.9 lbs.)

Input Power: 90 to 264 VAC (1.5 kW max.), 47...63 Hz, auto ranging

Output Voltage: 0 to 50V DC

Test Current: User Selectable: 25 mA ... 50 A

Inductance Range: 0 to 1,500 Henry

Temperature: **Operating:** -10°C to 60°C (14°F to 140°F); **Storage:** -20°C to 70°C (-4°F to 158°F) *See Instruction Manual for more parameters. Specifications subject to improvement at any time.*

Standard Accessories Included

Current and Potential Lead Set – 10m (32 ft.)

Ground Lead – 10m (32 ft.)

Jumper Cable – 10m (32 ft.)

Power Cord – 6.09m (20 ft.)

External USB drive and touch screen Stylus

A-B USB Cable – 3.05m (10 ft.)

Cable Bag with Shoulder Strap

Spare Fuse Set (10A), Qty. 5

Paper Refill for Printer — 5 rolls Instruction Manual Certificate of Accuracy

Optional Items Available

2040N-05003: Cable Extension Set — 10m (32 ft.) 2021N-26001: Temperature Probe — 10m (32 ft.)

2042N-11001: Heat-Run Curve Analysis Software (AHRT-01)

WR50-12R: Rackmount Version

Resistance Range: $0.00 \mu\Omega$ to $100 k\Omega$

Front Panel: Sealed, anodized

Panel Display: 5.7" Color LCD with backlight and touch screen

Interface: 2 USB 2.0 (1 host, 1 device) and 9 Pin RS-232 serial

Memory Storage: Internally stores more than 10,000 test results

2042N-15001: Annual Warranty Extension



Raytech is a world leader in the design and production of precision electronic measuring instruments and systems. The unique design approach of the engineering team at Raytech has resulted in the development of highly regarded measuring instruments, which have set new standards in the electrical testing industry.

Our exceptional reputation for support and service is unmatched.

Raytech products are designed for many years of trouble-free use, which is why we can offer a standard 5-year warranty – guaranteeing the highest quality instrumentation available.



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