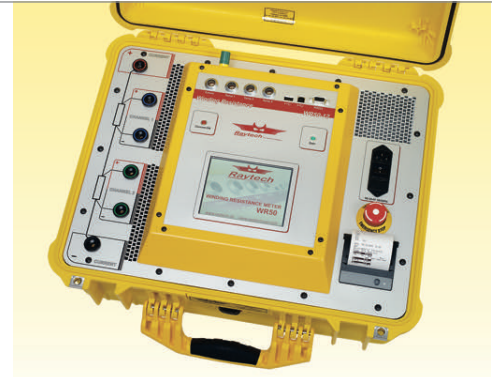## WR50-12: 50 Amp, 2 Channel Winding Resistance Meter with Demagnetization and Discharge

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 0.00µΩ …100kΩ
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 back light
Panel-mounted Emergency Stop Switch
Fully automatic cooling curve analysis (option AHRT 01)
Fastest discharge time on the market
5-Year standard warranty

WR50-12

Accuracy

Current Range	Measuring Range	Accuracy	Resolution
30 – 50A	0.00 µΩ … 1.3 Ω	± 0.1% Rdg ± 0.05 µΩ	5 Digits or 0.05 µΩ
15 – 30A	0.0 µΩ … 3.3 Ω	± 0.1% Rdg ± 0.1 µΩ	5 Digits or 0.1 µΩ
8 – 15A	0.0000 mΩ … 6.3 Ω	± 0.1% Rdg ± 0.2 µΩ	5 Digits or 0.2 µΩ
3 – 8A	0.0000 mΩ … 16.7 Ω	± 0.1% Rdg ± 0.5 µΩ	5 Digits or 0.5 µΩ
1 – 3A	0.000 mΩ … 47.2 Ω	± 0.1% Rdg ± 1 µΩ	5 Digits or 1 µΩ
0.7 – 1A	0.000 mΩ … 71.4 Ω	± 0.1% Rdg ± 2 µΩ	5 Digits or 2 µΩ
0.3 – 0.7A	0.000 mΩ … 167 Ω	± 0.1% Rdg ± 5 µΩ	5 Digits or 5 µΩ
0.1 – 0.3A	0.00 mΩ … 500 Ω	± 0.1% Rdg ± 10 µΩ	5 Digits or 10 µΩ
25 – 100 mA	0.00 mΩ … 2 kΩ	± 0.1% Rdg ± 20 µΩ	5 Digits or 20 µΩ
< 25 mA	2 kΩ … 10 kΩ	± 0.2% Rdg ± 200 mΩ	5 Digits or 200 mΩ
< 25 mA	10 kΩ … 100 kΩ	± 0.8% Rdg ± 20 Ω	4 Digits or 20 Ω

Specs

Size: **L:** 521 mm (20.5") **W:** 432 mm (17") **H:** 216 mm (8.5")
Input Power: 90 to 264 VAC (1.5 kW max.), 47…63 Hz, auto ranging
Panel Display: 5.7" Color LCD with back light and touch screen
Interface: 2 USB 1.1 (1 host, 1 device) and 9 Pin RS-232 serial
Memory Storage: Internally stores more than 10,000 test results
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)

Weight: 17.2 kg (37.9 lbs.)
Output Voltage: 0 to 50V DC
Test Current: User Selectable: 25 mA … 50 A
Front Panel: Sealed, anodized
Resistance Range: 0.00 µΩ to 100 kΩ

See Instruction Manual for more parameters. Specifications subject to improvement at any time.

Standard Accessories Included

Current and Potential Lead Set – 10m (32 ft.)
External USB drive and touch screen Stylus
External Zippered Pouch
Spare fuse set (10A), Qty. 5

Ground Lead – 10m (32 ft.)
Jumper Cable – 10m (32 ft.)
A-B USB Cable – 3.05m (10 ft.)
Cable Bag with Shoulder Strap

Power Cord – 6.09m (20 ft.)
Paper Refill for Panel-mount 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
2042N-15001: Annual Warranty Extension

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

Rackmount Version Available

For your convenience, Raytech offers a 4U rackmount version, the WR50-12R.

All of the features and accuracy of the portable field unit are incorporated into the rackmount, except the internal printer. There are a total of four (4) USB interfaces to provide additional access to the instrument.

Specs

Size: **L:** 490 mm (19.3") **W:** 436 mm (17.2") **H:** 177 mm (7")   Rack Unit: 4U   Weight: 13.5 kg (29.7 lbs.)

Standard Accessories Included

The same accessories are included as the portable field version, except printer paper refill will not be included because the rackmount does not contain a printer.

Optional Items Available

The same optional items that are available to the field unit are also available to the rackmount unit.

Rear View

Raytech is a world leader in the design and manufacture 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.

Raytech USA
118 S. 2nd Street
Perkasie, PA 18944
Tel: +267 404 2676
Email: Welcome@RaytechUSA.com
www.RaytechUSA.com

Raytech GmbH
Oberebenestrasse 11
5620 Bremgarten, Switzerland
Tel: +41 56 648 6010
Email: Welcome@Raytech.ch
www.Raytech.ch