

WR100-12R: 100 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 $0.00\mu\Omega$... $100k\Omega$
- 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
- Storage 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 conditions
- 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



WR100-12R

Accuracy

Current Range	Measuring Range	Accuracy	Resolution
30 – 100A	$0.00\mu\Omega$... 1.7Ω	$\pm 0.1\% \text{ Rdg} \pm 0.05\mu\Omega$	5 Digits or $0.05\mu\Omega$
15 – 30A	$0.0\mu\Omega$... 3.3Ω	$\pm 0.1\% \text{ Rdg} \pm 0.1\mu\Omega$	5 Digits or $0.1\mu\Omega$
8 – 15A	$0.0000\text{ m}\Omega$... 6.3Ω	$\pm 0.1\% \text{ Rdg} \pm 0.2\mu\Omega$	5 Digits or $0.2\mu\Omega$
3 – 8A	$0.0000\text{ m}\Omega$... 16.7Ω	$\pm 0.1\% \text{ Rdg} \pm 0.5\mu\Omega$	5 Digits or $0.5\mu\Omega$
1 – 3A	$0.000\text{ m}\Omega$... 47.2Ω	$\pm 0.1\% \text{ Rdg} \pm 1\mu\Omega$	5 Digits or $1\mu\Omega$
0.7 – 1A	$0.000\text{ m}\Omega$... 71.4Ω	$\pm 0.1\% \text{ Rdg} \pm 2\mu\Omega$	5 Digits or $2\mu\Omega$
0.3 – 0.7A	$0.000\text{ m}\Omega$... 167Ω	$\pm 0.1\% \text{ Rdg} \pm 5\mu\Omega$	5 Digits or $5\mu\Omega$
0.1 – 0.3A	$0.00\text{ m}\Omega$... 500Ω	$\pm 0.1\% \text{ Rdg} \pm 10\mu\Omega$	5 Digits or $10\mu\Omega$
25 – 100 mA	$0.00\text{ m}\Omega$... $2\text{ k}\Omega$	$\pm 0.1\% \text{ Rdg} \pm 20\mu\Omega$	5 Digits or $20\mu\Omega$
< 25 mA	$2\text{ k}\Omega$... $10\text{ k}\Omega$	$\pm 0.2\% \text{ Rdg} \pm 200\text{ m}\Omega$	5 Digits or $200\text{ m}\Omega$
< 25 mA	$10\text{ k}\Omega$... $100\text{ k}\Omega$	$\pm 0.8\% \text{ Rdg} \pm 20\Omega$	4 Digits or 20Ω

Specs

Size: **L:** 490 mm (19.3") **W:** 436 mm (17.2") **H:** 310 mm (12.2"), Rack Unit: 7U

Input Power: 2 x 90 to 264 VAC (3 kW max.), 47 ... 63 Hz, auto ranging

Test Current: User Selectable: 25 mA ... 100 A

Front Panel: Sealed, anodized

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)

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

Weight: 21.9 kg (48.3 lbs.)

Output Voltage: 0 to 50V DC

Panel Display: 5.7" Color LCD with back light and touch screen

Interface: 4 USB 1.1 (3 host, 1 device) and 9 Pin RS-232 serial

Resistance Range: $0.00\mu\Omega$ to $100\text{ k}\Omega$

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Standard Accessories Included

Current and Potential Lead Set – 10m (32 ft.)
External USB drive and touch screen Stylus
Ground Lead – 10m (32 ft.)

External Zippered Pouch
A-B USB Cable – 3.05m (10 ft.)
Jumper Cable – 10m (32 ft.)

Instruction Manual
Certificate of Accuracy

Optional Items Available

2061N-05001: Cable Extension Set – 10m (32 ft.)
2060A-04001: Pelican Transport Shipping Case
2061N-15001: Annual Warranty Extension

2021N-26001: Temperature Probe – 10m (32 ft.)
2042N-11001: Heat-Run Curve Analysis Software (AHRT-01)

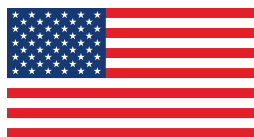


Rear View

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.



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