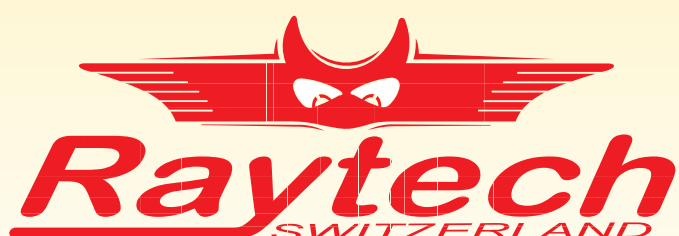


# Winding Resistance Meter 50 A

High Power DC Supply (50 A/50 V)

Demagnetisation and Discharge Circuit

Color touch screen



# WR50-12

# Winding Resistance Meter 50 A

## WR50-12

### Features

2 measuring channels (3 measuring channels with WR50-13)  
Charges inductive loads up to 1500 Henry, heavy duty protection circuitry  
Simple touch screen operation  
Extremely wide measuring range from 0.00  $\mu\Omega$  to 100 k $\Omega$ , DC current adjustable  
3 Temperature channels (with automatic resistance correction)  
High power DC Supply (50 A/50 V)  
Fastest discharge unit on market (more than 10 times faster)  
Discharge indicator – visible and audible indicator for discharge status  
Fully automatic **demagnetizing** circuit (world unique)  
Data transfer to internal printer at selectable intervals  
Mounted in rugged case for field testing  
Data exchange with USB-Key  
Fully automatic cooling curve analysis (option AHRT 01)



### Measurement Parameters

| Current Range    | Measuring Range   | Accuracy                             | Resolution                   |
|------------------|---|--------------------------------------|------------------------------|
| 30 – 50 A        | 0.00 $\mu\Omega$ ... 1.3 $\Omega$   | $\pm 0.1\%$ Rdg $\pm 0.05 \mu\Omega$ | 5 Digits or 0.05 $\mu\Omega$ |
| 15 – 30 A        | 0.0 $\mu\Omega$ ... 3.3 $\Omega$  | $\pm 0.1\%$ Rdg $\pm 0.1 \mu\Omega$  | 5 Digits or 0.1 $\mu\Omega$  |
| 8 – 15 A         | 0.0000 m $\Omega$ ... 6.3 $\Omega$  | $\pm 0.1\%$ Rdg $\pm 0.2 \mu\Omega$  | 5 Digits or 0.2 $\mu\Omega$  |
| 3 – 8 A          | 0.0000 m $\Omega$ ... 16.7 $\Omega$   | $\pm 0.1\%$ Rdg $\pm 0.5 \mu\Omega$  | 5 Digits or 0.5 $\mu\Omega$  |
| 1 – 3 A          | 0.000 m $\Omega$ ... 47.2 $\Omega$  | $\pm 0.1\%$ Rdg $\pm 1 \mu\Omega$    | 5 Digits or 1 $\mu\Omega$    |
| 0.7 – 1 A        | 0.000 m $\Omega$ ... 71.4 $\Omega$  | $\pm 0.1\%$ Rdg $\pm 2 \mu\Omega$    | 5 Digits or 2 $\mu\Omega$    |
| 0.3 – 0.7 A      | 0.000 m $\Omega$ ... 167 $\Omega$   | $\pm 0.1\%$ Rdg $\pm 5 \mu\Omega$    | 5 Digits or 5 $\mu\Omega$    |
| 0.1 – 0.3 A      | 0.00 m $\Omega$ ... 500 $\Omega$  | $\pm 0.1\%$ Rdg $\pm 10 \mu\Omega$   | 5 Digits or 10 $\mu\Omega$   |
| 25 – 100 mA      | 0.00 m $\Omega$ ... 2 k $\Omega$  | $\pm 0.1\%$ Rdg $\pm 20 \mu\Omega$   | 5 Digits or 20 $\mu\Omega$   |
| – 25 mA          | 2 k $\Omega$ ... 10 k $\Omega$  | $\pm 0.2\%$ Rdg $\pm 200 m\Omega$    | 5 Digits or 200 m $\Omega$   |
| – 25 mA          | 10 k $\Omega$ ... 100 k $\Omega$  | $\pm 0.8\%$ Rdg $\pm 20 \Omega$      | 5 Digits or 20 $\Omega$      |
| Resistance Range | 0.00 $\mu\Omega$ to 100.0 k $\Omega$  |                                      |                              |
| Inductance Range | 0 Henry to 1500 Henry   |                                      |                              |
| Temperature      | Operating $-10^\circ\text{C}$ to $60^\circ\text{C}$ , Storage $-20^\circ\text{C}$ to $70^\circ\text{C}$ |                                      |                              |

### Specifications

|                |  |
|----------------|--|
| Model          | WR50-12  |
| Size           | L: 521 mm (20.5"), W: 432 mm (17"), H: 216 mm (8.5")       |
| Weight         | 16.6 kg (36.6 lbs.)  |
| Input Power    | 90 to 264 Vac (1.5 kW max.), 47...63 Hz, Automatic ranging |
| Output Voltage | 0 to 50 V DC   |
| Test Current   | User Selectable: 50...0.025 A                              |
| Panel Display  | Color LCD with back lighting and touch screen              |
| Interface      | 2 USB 1.1 and 9 Pin RS 232 Serial                          |
| Front Panel    | Sealed, Anodized   |
| Memory Storage | Stores up to 10 000 complete test results                  |

### Accessories

Current and potential lead set 10 meters, instruction manual, jumper cable 10 m

### Options

|          |  |
|----------|--|
| WRO201   | 10 m cable extension set (not with option screw pole connectors) |
| TP01     | External temperature probe                                       |
| AHRT01   | «Heat run test» Software   |
| WR50-13  | 3 channel version  |
| WR50-12R | 19", 4U Rackmount version 2 channel                              |
| WR50-13R | 19", 4U Rackmount version 3 channel                              |
| WRO 505  | screw pole connectors  |

