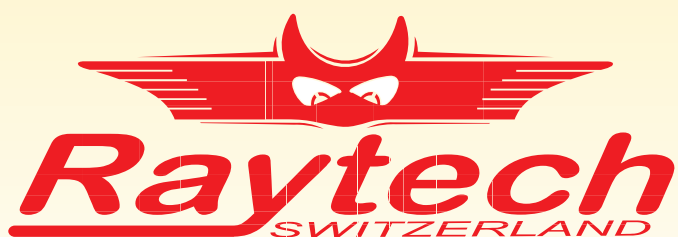


Winding Resistance Meter 100 A

High Power DC Supply (100 A/50 V)

Demagnetisation and Discharge Circuit

Color touch screen



WR100-12R

CT-Series

M-Series

TR-Series

WR-Series

Winding Resistance Meter 100 A

WR100-12R / WR100-13R

Features

Charges inductive loads up to 1500 Henry
Heavy-duty protection circuitry
Simple touch screen operation
Data exchange with an USB-Key
3 Temperature channels
High power DC Supply (100 A / 50 V)
DC Current adjustable for resistance values from 0.0 $\mu\Omega$ to 100 k Ω
Fastest Discharge unit on market (more than 10 times faster)
Discharge Indicator – visible and audible indicator for discharge status
Demagnetizing Circuit (world unique)
Warning device output to show “transformer under test”
Emergency stop push button immediately turns off power and starts discharging
Data Transfer to serial printer (option), Data Storage of up to 10 000 measurements
2 independent measuring channels (3 measuring channels with WR100-13R)
Fully automatic cooling curve analysis (Option AHRT 01)



Measurement Parameters

| Current Range | Measuring Range | Accuracy | Resolution |
|------------------|--|--------------------------------------|------------------------------|
| 30 – 100 A | 0.00 $\mu\Omega$... 1.7 Ω | $\pm 0.1\%$ Rdg $\pm 0.05 \mu\Omega$ | 5 Digits or 0.05 $\mu\Omega$ |
| 15 – 30 A | 0.0 $\mu\Omega$... 3.3 Ω | $\pm 0.1\%$ Rdg $\pm 0.1 \mu\Omega$ | 5 Digits or 0.1 $\mu\Omega$ |
| 8 – 15 A | 0.0000 m Ω ... 6.3 Ω | $\pm 0.1\%$ Rdg $\pm 0.2 \mu\Omega$ | 5 Digits or 0.2 $\mu\Omega$ |
| 3 – 8 A | 0.0000 m Ω ... 16.7 Ω | $\pm 0.1\%$ Rdg $\pm 0.5 \mu\Omega$ | 5 Digits or 0.5 $\mu\Omega$ |
| 1 – 3 A | 0.000 m Ω ... 47.2 Ω | $\pm 0.1\%$ Rdg $\pm 1 \mu\Omega$ | 5 Digits or 1 $\mu\Omega$ |
| 0.7 – 1 A | 0.000 m Ω ... 71.4 Ω | $\pm 0.1\%$ Rdg $\pm 2 \mu\Omega$ | 5 Digits or 2 $\mu\Omega$ |
| 0.3 – 0.7 A | 0.000 m Ω ... 167 Ω | $\pm 0.1\%$ Rdg $\pm 5 \mu\Omega$ | 5 Digits or 5 $\mu\Omega$ |
| 0.1 – 0.3 A | 0.00 m Ω ... 500 Ω | $\pm 0.1\%$ Rdg $\pm 10 \mu\Omega$ | 5 Digits or 10 $\mu\Omega$ |
| 25 – 100 mA | 0.00 m Ω ... 2 k Ω | $\pm 0.1\%$ Rdg $\pm 20 \mu\Omega$ | 5 Digits or 20 $\mu\Omega$ |
| – 25 mA | 2 k Ω ... 10 k Ω | $\pm 0.2\%$ Rdg \pm | 4 Digits or 200 m Ω |
| – 25 mA | 10 k Ω ... 100 k Ω | $\pm 0.8\%$ Rdg \pm | 4 Digits or 20 Ω |
| Resistance Range | 0.00 $\mu\Omega$ to 100 k Ω | | |
| Temperature | Operating -10 °C to 60 °C, Storage -20 °C to 70 °C | | |

Specifications

| | |
|----------------|--|
| Model | WR100-12R / WR100-13R |
| Size | L: 414 mm (16.5") W: 432 mm (17") (19" Rack) H: 306 mm (12") |
| Weight | 21.9 kg (48.3 lbs.) |
| Input Power | 2x90 to 264 Vac, 50/60 Hz, 2 Phase plus Neutral (3 kW max.) |
| Output Voltage | 0 to 50 V DC |
| Test Current | User Selectable 100 A ... 25 mA |
| Panel Display | Color LCD with back lighting and touch screen |
| Front Panel | Sealed anodized |
| Interface | 3 USB 1.1 (2 host/1 device) and 9 Pin RS232 serial |
| Memory Storage | Stores up to 10 000 complete test results |

Accessories

Current and potential lead set 10 meters, instruction manual, jumper cable 10 m
Software for data download

Options

| | |
|-----------|--|
| WRO 112 | 10 m cable extension set (not with option screw pole connectors) |
| TP 01 | Single external temperature probe |
| TP 03 | Complete Set of 3 external temperature probe |
| AHRT 01 | «Heat run test» Software |
| WR100-13R | 19", 7U Rackmount version 3 channel |