



ADWEL INTERNATIONAL LTD.

DIGITAL RESISTANCE REPORTER™

Light Weight, Automated Contact Resistance Measurement

Model DRR-100

- *Precise contact resistance measurement*
- *Stores 1000, three-phase measurements with device details*
- *True DC current is ramped up and down. Programmable from 10-60 seconds*
- *High input insulation level. Up to 1000 Volts on device under test*
- *Easily transfer stored data to memory stick or PC via USB port*
- *Prints stored results*



Description

The DRR-100 can precisely measure and save 1000, three-phase contact resistance measurements on circuit breakers, switches and bus bar joints in a high voltage environment. Each measurement file also stores device information such as serial number, location, designation, ratings and other useful details.

A large bright color screen presents several views including:

Test screen showing device information, selected current, actual current, test duration, time remaining and test results.

File manager to make it easy to retrieve, open, view and print results. Multiple files may be selected for batch printing

Pure DC output current is preset by operator to a value between 10-100 Amps and is applied for a preset time period of between 10-60 seconds. The current is smoothly ramped up and down automatically to prevent current transients that can lead to unwanted operation of protection relays.

A 20-Amp *continuous* mode is also provided to aid in trouble shooting by allowing the operator to move and relocate the potential leads during testing.

The DRR is specifically designed for rough usage and to function reliably in energized EHV substations where high electrical and magnetic fields are frequently present. The DRR will also function accurately and reliably with up to 1000 Vac of *noise* present on the device under test.

All stored results can be easily transferred to a memory stick or PC through a USB port using included file transfer software.

The DRR features 4½-digit resolution and 0.5% accuracy for precise measurement of low resistance.

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Features

- Continuous mode for trouble shooting
- High accuracy and resolution
- Emergency off button and auxiliary grounding terminal for safety
- High strength and water proof case for rough field use
- Test leads and accessories in separate carrying case
- Phase names may be selected by operator
- Available in English, French, Spanish or German
- Convenient, high current banana pin connectors
- Self regulated input supply



Specifications

Power	90 to 265 V 50/60 Hz. 600 VA
Test Current	10 to 100 Amps
Test Period	10-60 seconds at 10-100 Amps Continuous at 20 Amps
Auto ranges at 10-100 Amps	0.1 micro-ohms to 1999.9 micro-ohms 2000 micro-ohms to 19999 micro-ohms 0.1 micro-ohms to 199.99 milliohms (at 10 Amps only)
Accuracy	± 0.5% of reading ± 0.5% of range
Display Resolution	4½ digits
Graphic User Interface	12 x 9cm (4¾" x 3½") bright LCD display visible in bright sunlight. Display resolution of 640 x 480.
Memory Capacity	Up to 1000 measurement files each consisting of 3-phase readings with device information in text files compatible with most spreadsheet programs.
Printer	Built-in 40 character wide printer
Insulation Level	1000 Vac on device under test
Housing	Rugged, waterproof to IP-67
Environmental	Operating temperature: -10° to +50°C (+14° to +122°F) Storage Temperature: -15° to +80°C (+5° to +176°F) Relative Humidity: 0-95%, non-condensing
Weight	Instrument: 10 kg (22 lb.)
Dimensions	Instrument: 47 x 35.7 x 17.6 cm (18½" x 14" x 7")
Approvals	CE Compliance: EN61010, EN61326

*Specifications are subject to change without notice.

Represented by:

Model DRR-100

Kit Contents

- DRR-100
- Test leads 6.1m/20ft
- Operation Manual
- Accessories Case

Optional Accessories

- Custom Lead Lengths
- Shipping Case

Other ADWEL T&D Products

- Digital Winding Resistance Reporter, DWR-10
- Digital Resistance Meter, DRM-100
- Current Transformer Test Set, CTX-2000
- Digital Transformer Ratiometer, DXR-2000C
- 5 kV Insulation Resistance Tester, Teraohm



ISO 9001: 2000 CERTIFIED

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