DLRO 600

Digital Microhmmeter



- Small and weighs less than 15kg
- Test currents from 10A to 600 A d.c.
- n 0.1 μ best resolution
- On board memory for up to 300 test results and notes
- n RS232 port to download stored results or for real time output to a printer
- Supplied complete with 5m test leads and download software

DESCRIPTION

Megger DLRO600 measures resistances between 0.1 μ^- and 1 $^-$, at high currents.

This versatile instrument can provide test currents from 10 amps up to 600 amps subject to the load resistance and supply voltage. A large liquid crystal display provides all the information needed to perform a test; all test parameters and measurement results are displayed.

The unique design allows the weight and size of DLRO600 to be kept to a minimum; the instrument weighs less than 15kg. This small size makes DLRO600 equally at home in the workshop, on the production floor or in the field. The high current capability and compact design make DLRO600 suitable for testing circuit breaker contacts, switch contacts, busbar joints or other applications where high current is needed.

300 sets of results may be stored in DLRO600's on board memory for later download to a PC or may be output directly to a printer via the RS232 port. You may also add notes to any stored result by using the on board alphanumeric keypad, thereby making later identification of results straightforward.

As well as adding notes to stored results, the alphanumeric keypad allows you to set the test current directly by typing in the value required. DLRO600 will check the continuity of the test circuit, and will quickly ramp the test current up to the desired level. The keyboard is also used to set upper and lower limits for the result and to prevent the use of excessive currents by setting an upper limit to the allowable test current.

DLRO600 uses a four terminal measurement technique to cancel the resistance of the test leads from the measurement.

DLRO600 operates in one of three modes, which are simply

selected from the on screen menu.

CONTINUOUS mode is provided for users who wish to monitor a resistance over a period of time. Connect the test leads, select the test current and press the TEST button. DLRO600 will pass a current continuously, and measure the resulting voltage at 2-second intervals, until the test button is pressed to stop the test or the test circuit is interrupted.

In NORMAL mode you connect the leads, select the test current and press the TEST button. The test current will ramp up to the desired level, hold for 2 seconds and then ramp down. The whole process takes approximately 7 seconds.

In AUTO mode select the desired current, connect the current leads and press the TEST button. The TEST lamp will flash to show that the DLRO600 is ready to carry out a test. As soon as the potential leads are connected, a test will start. To repeat a test, simply break contact with the voltage probes and remake contact

Measuring individual joints in a busbar is a good example of the convenience to be gained by using AUTO mode. The two current leads are connected to the ends of the busbar. They will remain connected here until all tests have been completed. When the voltage leads make contact across a joint, DLRO600 detects that all four leads are connected, carries out a test and stops. When you move to the next joint DLRO detects the new completed circuit automatically and carries out the next test, and so on until all joints have been tested. The results may be stored automatically and may be recalled to the display or downloaded for review.

Megger

SPECIFICATIONS

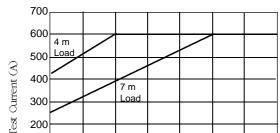
Measurement:

Range: $0.1 \, \mu$ to 999.9 m

(Subject to supply voltage and leads used)

Accuracy:

 $\pm 0.5\% \pm 0.1 \text{ mV}$ Voltage Current $\pm 0.5\% \pm 0.1 \text{ A}$ Resistance: Better than 1% from 100 μ to 100 m



Output Current:

200

100

0

100

120

The chart above shows the maximum output current available at different supply voltages with a 4 m load (i.e. standard 5 m current leads only) and with a 7 m load

160

Supply Voltage

180

200

220

240

Current Lead Resistance (Megger supplied leads)

2 x 5 m 50 mm² current leads 4 m 2 x 10 m 70 mm² current leads 5.4 m 2 x 15 m 95 mm² current leads 6 m

Maximum Continuous Test Time

More than 60 seconds at 600 A @ 20 C ambient.

Power Supply for: See chart.

full output: 207 to 265 V 50/60 Hz with a load

less than 7 m including current

leads

reduced output: Down to 100 V 50/60 Hz. **Test Modes:** Manual, Auto, Continuous. **Test Time:** 7 seconds NORMAL /AUTO mode.

Refreshed every 2 seconds in CONTINUOUS

Display: Large, high resolution backlit liquid crystal

display

Warnings Current flowing: - LED. Other warnings are

shown on the lcd display.

Data Transfer Real time or batch download via RS232

using AVO Download Manager.

Storage Capacity:

300 result sets and memo, battery backed for

10 years

Memo field: 200 characters max.

Test Current

Range: 10 A to 600 A unsmoothed d.c. in 1 A steps

Accuracy: ±2% ±2 A

Voltmeter input

impedance: >200 k

Hum rejection: 5 V rms 50 Hz/60 Hz

Temperature

Operation: -10 to +50 C Storage: -25 to +65 C

Calibration: 20 C

Co-efficient: <0.05% per C

Max. Humidity: 95% RH non-condensing

Maxi Altitude: 2000 m

Safety: IEC61010 - (1995) Category II, 300 V phase

to earth.

EMC: EN61326 annex A (heavy industrial)

Dimensions: 410 x 250 x 270 mm

Weight: 14.5 kg (excluding test leads)

ORDERING INFORMATION	
Item (Qty)	Order No.
MEGGER DLRO600 High Current Digital Low Resistance Ohmmeter (English QWERTY keyboard)	DLRO600 E
MEGGER DLRO600 High Current Digital Low Resistance Ohmmeter (French AZERTY keyboard)	DLRO600 F
Complete with	
5m Lead set in bag comprising 2 x 50mm2 current leads with clamps and 2 x potential leads with clips.	6220-755
AVO Download Manager	6111-442
User Guide on CD-ROM	6172-763
RS232 download cable	25955-025
Quick Start Guide (English)	6172-782
Quick Start Guide (French)	6172-783
Warranty card.	6170-618
Optional Accessories at extra cost	
15m Lead set comprising 2 x 95mm2 current leads with clamps and 2 x potential leads with clips.	6220-757
10m Lead set comprising 2 x 95mm2 current leads with clamps and 2 x potential leads with clips.	6220-756

Archcliffe Road, Dover CT17 9EN T (0) 1 304 502101 F(0) 1 304 207342 www.megger.com

T 1 214 330 3203

F 1 214 337 3038

4271 Bronze Way Dallas Texas 75237-1017 T 1 800 723 2861

OTHER TECHNICAL SALES OFFICES Valley Forge USA, Toronto CANADA, Mumbai INDIA, Le Raincy FRANCE, Cherrybrook **AUSTRALIA, Guadalajara SPAIN** and the Kingdom of BAHRAIN.

ISO STATEMENT

Registered to ISO 9001:1994 Reg no. Q 09250 Registered to ISO 14001 Reg no. EMS 61597

DLRO 600 DS En V01

Megger DLRO 600 - Datasheet





Megger DLRO 600 Digital Micro-ohmmeter - High Current MEG,DLRO600 (1268)

Measures resistance between 0.1micro-Ohms and 10hm, at high currents. Provides test currents from 10A to 600A subject to the load resistance and supply voltage. A large backlit LCD provides all the information needed to perform a test; all test parameters and measurement results are displayed. Range: 0.1micro-Ohms to 999.9mW [subject to supply voltage and load resistance]. Accuracy: Voltage $\pm 0.5\% \pm 0.1$ mV. Current

 $\pm 0.5\% \pm 0.1$ A. Resistance: Better than micro-Ohms to 100mW. Power supply for: full output: 207 to 265V 50/60Hz with a load less than 7mOhms including current leads [i.e. standard 5m 50mm² current leads only, 4mOhms load]. Reduced output: Down to 100V 50/60Hz. Test Current Range: 10A to 600A unsmoothed DC in 1A steps. Accuracy: $\pm 2\% \pm 2$ A. Test Modes: Manual, Auto, Continuous. Test Time: 7s NORMAL /AUTO mode. Refreshed every 2s in Continuous mode. Voltmeter input impedance: > 200kW. Data Transfer: Real time or batch download via RS232 using AVO Download Manager. Storage Capacity: 300 result sets.

Related products that will enhance testing capability



High Voltage Inc. Hipot Insulation Tester 50kVAC HIV,PFT503 (1268)



Megger Digital Low Resistance Ohmmeter 10A/0.1microohm-2K0hm MEG,DLR010X (1266)



T&R 200A-3PH/ED Current Injection Tester T&R,200A3PHEDIT (8465)



SMC PET-100-C Secondary Current Test Set SMC,PTE-100-C (8414)



Save your time and reduce your costs by using our data management services. Learning to operate unfamiliar equipment costs you time and can lead to fundamental errors in data capture processing. There is a better solution - our setup and download service.

Our technical staff are equipped and trained to deliver you the downloaded data in a range of suitable output formats including USB drive, CD-ROM, printout, chart and DVD according to your need and the product's functionality. Save your time and reduce your real costs. Contact TechRentals to find out about our Configuration and Download solutions.

If you don't see the type of equipment you are looking for, contact us to discuss your requirements.

