



Datasheet



0370 330 6021
www.sunbeltrentals.co.uk

DLRO 200

Digital Microhmmeter



- **Small and weighs less than 15kg**
- **Test currents from 10 A to 200 A d.c.**
- **0.1 $\mu\Omega$ best resolution**
- **On board memory for up to 300 test results and notes**
- **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 DLRO200 measures resistances between 0.1 $\mu\Omega$ and 1 Ω , at high currents.

This versatile instrument can provide test currents from 10 amps up to 200 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 DLRO200 to be kept to a minimum; the instrument weighs less than 15kg. This small size makes DLRO200 equally at home in the workshop, on the production floor or in the field. The high current capability and compact design make DLRO200 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 DLRO200'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. DLRO200 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.

DLRO200 uses a four terminal measurement technique to cancel

the resistance of the test leads from the measurement.

DLRO200 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. DLRO200 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 10 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 DLRO200 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, DLRO200 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.

SPECIFICATIONS

Measurement:

Range: 0.1 $\mu\Omega$ to 999.9 m Ω

(Subject to supply voltage and leads used)

Accuracy:

Voltage $\pm 0.5\% \pm 0.1$ mVCurrent $\pm 0.5\% \pm 0.1$ AResistance: Better than 1% from
100 $\mu\Omega$ to 100 m Ω

Current Lead Resistance (Megger supplied leads)

2 x 5 m 25 mm² current leads 8 m Ω 2 x 5 m 50 mm² current leads 4 m Ω 2 x 10 m 70 mm² current leads 5.4 m Ω 2 x 15 m 95 mm² current leads 6 m Ω

Maximum Continuous Test Time

More than 10 minutes at 200 A @ 20°C ambient.

Power Supply DLRO200

for full output (unsmoothed d.c.):

100 to 265 V 50/60 HZ with a load
less than 19 m Ω (supply >207 V rms), or
11 m Ω (115 V rms) including current leads

Power Supply DLRO200-115

for full output (additional smoothing):

100 to 130 V 50/60 HZ with a load
less than 11 m Ω including current leads**Test Modes:** Manual, Auto, Continuous.**Test Time:** 10 seconds NORMAL /AUTO mode.
Refreshed every 2 seconds in CONTINUOUS
mode**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 Download Manager.

Storage Capacity:

300 result sets and memo, battery backed for
10 years.**Memo field:** 160 characters max.

Test Current

Range: 10 A to 200 A d.c. ***Accuracy:** $\pm 2\% \pm 2$ A

Voltmeter input

impedance: >200 k Ω **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)**EMC:** EN61326 annex A (heavy industrial)**Dimensions:** 410 x 250 x 270 mm**Weight:** 14.5 kg (excluding test leads)* DLRO200-115 supplied with 25 mm² current leads 6220-787 as
standard

ORDERING INFORMATION

Item (Qty)	Order No.	Item (Qty)	Order No.
DLRO200 High Current Digital Low Resistance Ohmmeter (English QWERTY keyboard)	DLRO200 E	EQuick Start Guide (French)	6172-783
DLRO200 High Current Digital Low Resistance Ohmmeter (French AZERTY keyboard)	DLRO200 F	Warranty card.	6170-618
DLRO200-115 High Current Digital Low Resistance Ohmmeter 115 V (English QWERTY keyboard)	DLRO200-115 E	Optional Accessories at extra cost	
Included Accessories		*5m Lead set in bag comprising:	6220-787
5 m Lead set comprising 2 x 50 mm ² current leads with clips and 2 potential leads with clips	6220-755	2 x 25mm ² current leads with clamps and 2 x potential leads with clips.	6220-757
Download Manager	6111-442	15m Lead set comprising 2 x 95 mm ² current leads with clamps and 2 x potential leads with clips.	
User Guide on CD-ROM	6172-763	10m Lead set comprising 2 x 95 mm ² current leads with clamps and 2 x potential leads with clips.	6220-756
RS232 download cable	25955-025		
Quick Start Guide (English)	6172-782		

UK

Archcliffe Road Dover
CT17 9EN England
T +44 (0) 1304 502101
F +44 (0) 1304 207342

UNITED STATES

4271 Bronze Way
Dallas TX 75237-1088 USA
T 800 723 2861 (USA only)
T +1 214 333 3201
F +1 214 331 7399

OTHER TECHNICAL SALES OFFICES

Norristown USA, Toronto CANADA,
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Registered to ISO 9001:2000 Reg no. Q 09290

Registered to ISO 14001 Reg no. EMS 61597

DLRO200_DS_en_V01

www.megger.com
Megger is a registered trademark

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a world class service, every day,
in every sector...**

LOCATIONS

LONDON, HEATHROW

Sunbelt Rentals UK Test & Monitoring

242-252 London Road, Staines, London TW18 4JQ

0333 122 3126

www.sunbeltrentals.co.uk/find-a-depot/london-heathrow

REDCAR

Sunbelt Rentals UK Test & Monitoring

Unit 5 Kirkleatham Business Park, Redcar TS10 5SQ

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