EUROPE'S LARGEST SELECTION OF TEST & MEASUREMENT EQUIPMENT FOR HIRE

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WHEN YOU CAN HIRE

Nationwide Low Call 0333 6000 600

Megger.

DLRO600 Digital Microhmmeter



- Small and weighs less than 15kg
- Test currents from 10A to 600 A d.c.
- 0.1 μΩ 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 DLRO600 measures resistances between 0.1 $\mu\Omega$ and 1 $\Omega,$ 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.

History of 'Ducter' testing

For over 100 years the 'Ducter test' has been used to describe a simple test for measuring very low contact resistances and "Ducter", which is still used as a trade mark, was the name originally given to the low resistance ohmmeter manufactured by Megger. The name Ducter was registered by Megger in June 1908 and 'Ducter' has since become the industry standard.

Test Modes

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.

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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:

Accuracy:

0.1 μΩ to 999.9 mΩ

(Subject to supply voltage and leads used)

Voltage $\pm 0.5\% \pm 0.1$ mV Current $\pm 0.5\% \pm 0.1$ A Resistance: Better than 1% from 100 $\mu\Omega$ to 100 $m\Omega$



Output Current:

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

Current Lead Resistance	(Megger	supplied	leads)
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Maximum Continuous Test Time	
2 x 15 m 95 mm2 current leads	6 mΩ
2 x 10 m 70 mm2 current leads	5.4 mΩ
2 x 5 m 50 mm2 current leads	4 mΩ

Maximum Continuous Test Time

Maximum continuous ic.	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 mΩ 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 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:	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 kΩ
Hum rejection:	5 V rms 50 Hz/60 Hz
Operation Temperature:	-10 to +50°C
Storage Temperature:	-25 to +65°C
Calibration:	20°C
Co-efficient:	<0.05% per °C
Max. Humidity:	95% RH non-condensing
Maxi Altitude:	2000 m
Safety:	IEC61010-1
EMC:	IEC61326-1
Dimensions :	410 x 250 x 270 mm
Weight:	14.5 kg (excluding test leads)

ORDERING INFORMATION

STANDARD VERSIONS WITH TEST LEAD	S
Description	Part number
DLRO600 High Current Digital Low Resistance Ohmmeter (English QWERTY keyboard)	DLRO600-EN
DLRO600 High Current Digital Low Resistance Ohmmeter (French AZERTY keyboard)	DLRO600-FR
Included accessories	
5 m (16.4 ft.) Lead set set comprising 2 x 50 n current leads with clips and 2 potential	nm2
leads with clips	6220-755
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

Description	Part number
DLRO600 High Current Digital Low Resista Ohmmeter (English QWERTY keyboard)	ance DLRO600-EN-NLS
DLRO600 High Current Digital Low Resista Ohmmeter (French AZERTY keyboard)	ance DLRO600-FR-NLS
Included Accessories	
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
NOTE:	
For further test lead information refer to c DLRO_TL_DS_en_V01.pdf	latasheet

TEST LEAD INFORMATION



6220-755 5m Lead set (600 A)

2 x 50 mm² current leads with clamps and 2 x potential leads with clips.

DESCRIPTION

Lead set consists of pair of flexible high current capacity leads, together with a separate pair of lightweight potential leads.

Current leads are fitted with heavy duty sprung clamps (60 mm jaw capacity).

Potential leads fitted with smaller HD crocodile clips 22 mm jaw capacity).

Note:

6220-755 supplied as standard with DLRO600-EN and DLRO600-FR



6220-756 10m Lead set

2 x 70mm² current leads with clamps and 2 x potential leads with clips. 6220-757 15m Lead set 2 x 95mm² current leads with clamps and 2 x potential leads with clips.

DESCRIPTION

Lead set consists of pair of flexible high current capacity (600 A cont.) leads, together with a separate pair of lightweight potential leads. Current leads are fitted with heavy duty sprung clamps (60 mm jaw capacity). Potential leads fitted with smaller HD crocodile clips 22 mm jaw capacity).

SALES OFFICE

Megger Limited Archcliffe Road Dover CT17 9EN England T +44 (0) 1304 502101 E UKsales@megger.com

DLRO600_DS_en_V14

www.megger.com ISO 9001 The word 'Megger' is a registered trademark



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OUR COMMITMENT TO YOU

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Honest advice, just a phone call away.

If we don't have a particular item, rather than hiring you something that won't do the job, we would rather direct you to an alternative supplier. You will always be provided with full instructions and if you still need help, call our technical team on Nationwide Low Call 0333 6000 600. Our aim is to save you time, frustration and money.

Top quality equipment from major manufacturers.

With Inlec you'll get the most accurate, reliable and wellmaintained equipment available. Prices are regularly reviewed to ensure you always enjoy the best value for money. We have made a significant investment in test equipment so we ensure that it's well packed to minimise damage and delay.

We really do listen to you.

You won't waste your time contacting Inlec. Every request for equipment is logged and carefully considered. Listening to our customers helps keep our product range up to date and relevant. If you are unhappy about any aspect of our service please let us know so we can put it right.

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All equipment is thoroughly checked prior to dispatch to ensure you receive it in full, safe working order. Your shipment will be securely packed and include manufacturer's instructions, accessories or consumables and a valid calibration certificate where appropriate. In addition, Inlec offer a 24 hour replacement service if you decide the equipment is not suitable for your application*.

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