

Megger digital low resistance ohmmeters



- CAT IV 600 V AC / 500 V DC for safe operation
- Lightweight 100 A battery powered unit for portability
- High noise immunity for stable readings
- Smooth DC Output for circuit breaker testing
- IP54 for protection against dust and moisture whilst testing
- Save, download and delete results (100XB/HB variants)
- Remote operation, Bluetooth® & asset/result tagging (100HB variants)

DESCRIPTION

A significant addition to the comprehensive range of Megger Low Resistance Ohmmeters, DLRO100 enables low resistance measurement, across multiple applications, in areas without access to mains power. The integral Li-lon battery supplies a constant 100 A current for up to 200 Manual/Auto tests to enable enhanced productivity in remote locations. With a focus on user safety, advanced design features ensure the safe operation of the instrument in the most adverse conditions, including a CAT IV 600 VAC / 500 VDC safety rating in accordance with IEC61010. The rugged design, intuitive interface and IP54 (lid open) rating ensure reliability and ease of use in the most arduous of conditions.

Test Modes

The **Manual test** mode allows the user to initiate the test procedure once the probes are in contact with the object under test. Once the TEST button is depressed the TEST lamp will illuminate and the instrument will undertake a single test to verify the resistance of the test object.

In **Auto mode** the user selects the desired current, connects the current test leads and as soon as the potential leads are connected a test will start automatically. To repeat a test, simply break contact with the potential probes and remake contact.

In **Continuous mode** the user connects the test leads and presses the TEST button, initiating the test procedure. The instrument will continue to test, updating the display after each new test cycle, until the TEST button is pressed or the test procedure times out.



A new tough adjustable clamp has been designed to ensure flexibility in many applications and provides a good connection with the test piece.

Test Leads:

Standard test leads, with separate Current & Potential, or Kelvin, combining both Current & Potential in one clamp, are available as optional accessories in 5 m, 10 m & 15 m lengths. All test leads are CAT IV 600 V AC / 500 V DC safety rated.



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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.

APPLICATION

The need for accurate low resistance measurement is well known and very diverse. Typical applications include:

Utilities & Service Contractors – commissioning new installations & regular maintenance testing of

- Switchgear and circuit breaker contact resistance
- Busbar and cable joints
- Wire and cable resistance
- Lightning conductor bonding

Original Equipment Manufacturer – detecting manufacturing defects

- Production test of circuit breakers contacts & joints
- Production test of high voltage switchgear
- Production test of welded joints & connections

Transport – manufacturing & maintenance

- Railway rolling stock ground connections & manufactured joints
- Railway lines & conductor rails commissioning & maintenance
- Aircraft frame bonds and static control circuits

SPECIFICATIONS		
Measurement range	0.1 μΩ – 1.999 Ω	
Resolution	0.1 μΩ	
Noise rejection	Differential 100 mV @ 50-60 Hz on Test Leads	
DC output	Smooth DC	
IP rating	IP54 Lid open / IP65 Lid closed	
Operating temperature range	-20°C up to 50°C	
Storage temperature range	-30°C up to 70°C	
Humidity	<85% R.H. non-condensing	
Battery life	200 single 100 A tests or up to 2x 10 minutes continuous 100 A output	
Battery type	User replaceable Li-ion battery pack	
Battery charge time	Full charge in 2.5 Hrs from flat	
Maximum output voltage	2 V (battery), 3 V (AC)	
EMC	IEC61326-1	
Safety	IEC61010	
	CAT IV 600 VAC / 500 VDC up to 2000 m	
	CAT IV 300 V up to 4000 m	
Dimensions	400 x 300 x 200 mm	
Weight	7.0 kg (AC Only)	
	7.9 kg (with Battery)	
Accuracy		

Current setting	Resistance range	Accuracy
50 – 110 A	0 – 100.00 mΩ	Typical \pm (0.2% + 0.2 $\mu\Omega$) Max. \pm (0.2% + 0.8 $\mu\Omega$)*
11 – 49 A	10 μ Ω – 100.00 m Ω	Typical \pm (0.2% + 0.5 $\mu\Omega$) Max. \pm (0.2% + 2.0 $\mu\Omega$)*
10 A	10 μ Ω – 1000.0 m Ω	Typical \pm (0.2% + 1.0 $\mu\Omega$) Max. \pm (0.2% + 2.5 $\mu\Omega$)*

Added operational uncertainty for harsh environmental conditions (85% RH, -20 °C to +50 °C):

Current setting#	Resistance range	Accuracy
50 – 110 A 11 – 49 A 10 A	$\begin{array}{l} 0 - 100.00 \ m\Omega \\ 10 \ \mu\Omega - 100.00 \ m\Omega \\ 10 \ \Omega - 1000.0 \ m\Omega \end{array}$	$\pm (0.0\% + 0.0 \mu\Omega)$ $\pm (0.0\% + 1.0 \mu\Omega)$ $\pm (0.1\% + 2.0 \mu\Omega)$

Actual test current may be limited by maximum output voltage * $k = \pm 4\sigma$

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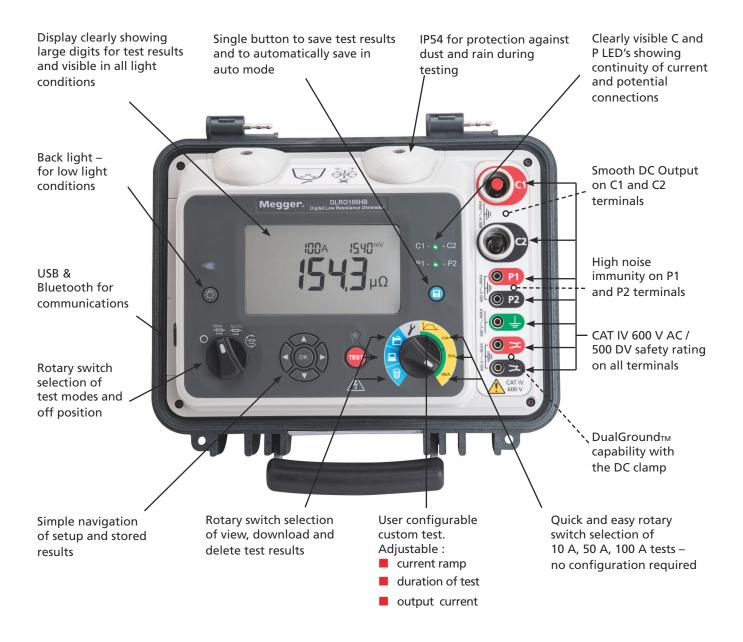


DLRO100 SeriesMegger digital low resistance ohmmeters

	RO100 XB	HB IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	BENEFITS On all test terminals for safe operation Easily portable – 7.9 Kg (17 lbs) with battery For stable readings in noisy environments Circuit breaker testing For protection against ingress during operation (lid open) and storage (lid closed) Always ready to test with a Li-ion fast charge battery – 2.5 hours charge time from fully discharged Works from an AC supply if the battery is fully discharged Battery capacity – 200 single tests or up to 2x 10 minutes continuous 100 A output for extended use Quick selection of test modes for different applications with 4 terminal measurement for flexibility
CAT IV 600 V AC / 500 V DC up to 2000 m CAT IV 300 V up to 4000 m Lightweight 100 A battery powered unit High noise immunity Smooth DC Output IP54 Lid open IP65 Lid closed Li-ion battery 100A Manual, Auto and Continuous test	•		On all test terminals for safe operation Easily portable – 7.9 Kg (17 lbs) with battery For stable readings in noisy environments Circuit breaker testing For protection against ingress during operation (lid open) and storage (lid closed) Always ready to test with a Li-ion fast charge battery – 2.5 hours charge time from fully discharged Works from an AC supply if the battery is fully discharged Battery capacity – 200 single tests or up to 2x 10 minutes continuous 100 A output for extended use Quick selection of test modes for different applications with 4 terminal measurement for
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100A Manual, Auto and Continuous test	•	•	 - 2.5 hours charge time from fully discharged Works from an AC supply if the battery is fully discharged Battery capacity – 200 single tests or up to 2x 10 minutes continuous 100 A output for extended use Quick selection of test modes for different applications with 4 terminal measurement for
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Continuous test	•	•	minutes continuous 100 A output for extended use Quick selection of test modes for different applications with 4 terminal measurement for
Continuous test	•	•	applications with 4 terminal measurement for
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Custom test			
•			Adjustable current 10 – 110 A, ramp rates
			configurable from 0.5s upto 30s and configurable test duration for flexibility
Range and test mode			Quick and easy selection of current ranges and test
rotary switches		_	modes
Ultra tough outer case construction	•	•	Designed for use in demanding environments with a flame retardant UL94 V0 inner case for safety
Dual Ground™	*	*	Using the optional DC clamp enables circuit breaker
Largo clear LCD	_	_	testing with ground protection in place for safety
Large, clear LCD	_	-	Ideal for all light conditions, with backlight
Internal memory storage with USB			For effective results management, up to 220 time and date stamped records
download capability	-	_	and date stamped records
Remote Control			Control the instrument remotely over USB via a PC of
			laptop for added safety
Asset tagging		•	Running a PowerDB app on Windows tablet or smar phone to populate unique asset IDs for efficient asse management
Bluetooth®			For effective wireless communication. For download and asset tagging

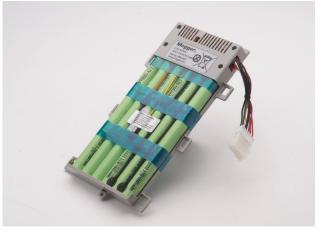


Megger digital low resistance ohmmeters





A new terminal adapter has been designed to enable the use of users own test leads.



A user replaceable high power lightweight Li-ion battery provides, from a single charge, 200 Manual/Auto 100 A tests or up to two 10 minutes continuous 100 A tests and takes 2.5 hours to charge when fully discharged.

Megger digital low resistance ohmmeters

Description Order Code Description Order Code DLRO100EB: Optional Accessories DLRO100EB (UK Plug) 1004-872 DLRO100 CAT IV 600 V Lead Set (5m) 1004-448 DLRO100EB (US Plug) 1004-874 DLRO100 CAT IV 600 V Lead Set (10m) 1004-449 DLRO100XB: DLRO100 Terminal Adaptors (x2) 1005-555 DLRO100XB (UK Plug) 1004-913 DLRO100 Terminal Adaptors (x2) 1005-634 DLRO100XB (US Plug) 1004-914 DLRO100 CAT IV 600 V Kelvin Lead Set (5m) 1005-634 DLRO100XB (US Plug) 1004-914 DLRO100 CAT IV 600 V Kelvin Lead Set (5m) 1005-635 DLRO100XB (US Plug) 1004-914 DLRO100 CAT IV 600 V Kelvin Lead Set (5m) 1005-635 DLRO100XB (UK Plug) 1004-954 DLRO100 CAT IV 600 V Kelvin Lead Set (10m) 1005-635 DLRO100XB (UK Plug) 1004-954 DLRO100 CAT IV 600 V Relvin Lead Set (10m) 1005-635 DLRO100XB (UK Plug) 1004-954 DLRO100 CAT IV 600 V Relvin Lead Set (10m) 1005-635 DLRO100XB (UK Plug) 1004-954 DLRO100 CAT IV 600 V Potential Leads and Earth (Ground) Lead only (10m) Lead only (10m) <td< th=""><th colspan="7">ORDERING INFORMATION</th></td<>	ORDERING INFORMATION						
DLRO100EB (UK Plug) 1004-872 DLRO100 CAT IV 600 V Lead Set (5m) 1004-448	Description	Order Code	Description	Order Code			
DLRO100EB (SCHUKO) 1004-874 DLRO100 CAT IV 600 V Lead Set (10m) 1004-449 DLRO100EB (US Plug) 1004-879 DLRO100 CAT IV 600 V Lead Set (15m) 1004-450 DLRO100XB (UK Plug) 1004-913 DLRO100 Terminal Adaptors (x2) 1005-555 DLRO100XB (UK Plug) 1004-914 DLRO100 Lead Set Adaptors (10 A Leads) 1008-604 DLRO100XB (US Plug) 1004-919 DLRO100 CAT IV 600 V Kelvin Lead Set (5m) 1005-634 DLRO100XB (US Plug) 1004-919 DLRO100 CAT IV 600 V Kelvin Lead Set (10m) 1005-635 DLRO100HB (UK Plug) 1004-953 DLRO100HB (UK Plug) 1004-954 DLRO100HB (US Plug) 1004-959 DLRO100 CAT IV 600 V Potential Leads and Earth (Ground) Lead only (5m) 1011-524 DLRO100 CAT IV 600 V Potential Leads and Earth (Ground) Lead only (15m) 1011-525 DLRO100 CAT IV 600 V Potential Leads and Earth (Ground) Lead only (15m) 1011-525 DLRO100 CAT IV 600 V Potential Leads and Earth (Ground) Lead only (15m) 1011-525 DLRO100 CAT IV 600 V Potential Leads and Earth (Ground) Lead only (15m) 1011-525 DLRO100 CAT IV 600 V Potential Leads and Earth (Ground) Lead only (15m) 1011-525 DLRO100 CAT IV 600 V Potential Leads and Earth (Ground) Lead only (15m) 1011-525 DLRO100 CAT IV 600 V Potential Leads and Earth (Ground) Lead only (15m) 1011-525 DLRO100 CAT IV 600 V Potential Leads and Earth (Ground) Lead only (15m) 1011-525 DLRO100 CAT IV 600 V Potential Leads and Earth (Ground) Lead only (15m) 1011-525 DLRO100 DL	DLRO100EB:		Optional Accessories				
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DLRO100HB: DLRO100HB (UK Plug) DLRO100HB (SCHUKO) DLRO100HB (SCHUKO) DLRO100HB (US Plug) DLRO100HB (US Plug) Included Items Certificate of Test Quick Start Guide Calibration Certificate Mains lead Lithium Ion Battery Pack USB Cable (XB, HB variants only) Lead set is NOT included with the instrument and must be DLRO100 CAT IV 600 V Potential Leads and Earth (Ground) Lead only (5m) DLRO100 CAT IV 600 V Potential Leads and Earth (Ground) Lead only (10m) 1011-524 DLRO100 CAT IV 600 V Potential Leads and Earth (Ground) Lead only (15m) DLRO100 CAT IV 600 V Potential Leads and Earth (Ground) Lead only (10m) 1011-525 DLRO100 CAT IV 600 V Potential Leads and Earth (Ground) Lead only (10m) 1011-524 USB C100 CAT IV 600 V Potential Leads and Earth (Ground) Lead only (10m) 1011-524 DLRO100 CAT IV 600 V Potential Leads and Earth (Ground) Lead only (10m) 1011-524 USB C100 CAT IV 600 V Potential Leads and Earth (Ground) Lead only (10m) 1011-524 USB C100 CAT IV 600 V Potential Leads and Earth (Ground) Lead only (10m) 1011-524 USB C100 CAT IV 600 V Potential Leads and Earth (Ground) Lead only (10m) 1011-524 USB C100 CAT IV 600 V Potential Leads and Earth (Ground) Lead only (10m) 1011-524 DLRO100 CAT IV 600 V Potential Leads and Earth (Ground) Lead only (10m) 1011-524 USB C100 CAT IV 600 V Potential Leads and Earth (Ground) Lead only (10m) 1011-524 USB C100 CAT IV 600 V Potential Leads and Earth (Ground) Lead only (10m) 1011-524 USB C100 CAT IV 600 V Potential Leads and Earth (Ground) Lead only (10m) 1011-524 USB C100 CAT IV 600 V Potential Leads and Earth (Ground) Lead only (10m) 1011-524 USB C100 CAT IV 600 V Potential Leads and Earth (Ground) Lead only (10m) 1011-524 USB C100 CAT IV 600 V Potential Leads and Earth (Ground) Lead only (10m) 1011-524 USB C100 CAT IV 600 V Potential Leads and Earth (Ground) Lead only (10m) 1011-525 USB C100 CAT IV 600 V Potential Leads and Earth (Ground) Lead only (10m) 1011-526 USB C100 CAT IV 600 V Potential Leads and Earth	DLRO100XB (US Plug)	1004-919	DLRO100 CAT IV 600 V Kelvin Lead Set (10m)	1005-635			
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