



Datasheet



0370 330 6021
www.sunbeltrentals.co.uk

DMO600

Digital Micro-Ohmmeter with USB data storage

NEW

10-600A Test Current
0.1 $\mu\Omega$ –5 Ω Resistance
USB Test Data Storage
600A for 2 minutes

Universal supply

90-264V supply voltage
with no restriction on
output current.

Main Output

5V 10-600A pre-settable current.
Thermal and over-current
protection. <2.5% ripple.

mV Input

Sense input for 4 wire resistance
measurement.

Current clamp input

Connect the optional DC current clamp to
measure resistances with both sides earthed.

Optional current clamp

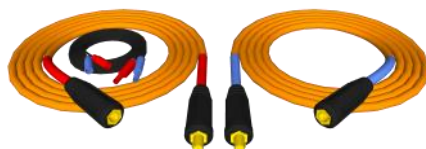


Available in a Pelicase



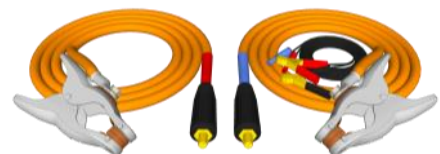
Optional extension lead sets

Optional output and sense extension lead sets
available in 3m, 5m and 10m lengths.



Standard lead set

High quality 3m 600A output leads
in carry case supplied with unit.



A USB keyboard and USB memory key are
supplied with the DMO600.

Test current presets

Programmable buttons to set test
currents. Set to 100A, 300A and
600A by default.

USB data storage

All test results can be stored automatically
on a standard USB memory key. The unit
has a real-time clock to time and date-
stamp all results. Results are written
to a CSV file that can be opened
by any spreadsheet program. A
USB keyboard is supplied to
add comments to results.

Comment

Press this button to
enter a new com-
ment on the key-
board.

Colour LCD

Simultaneous display
of current, mV and
resistance.

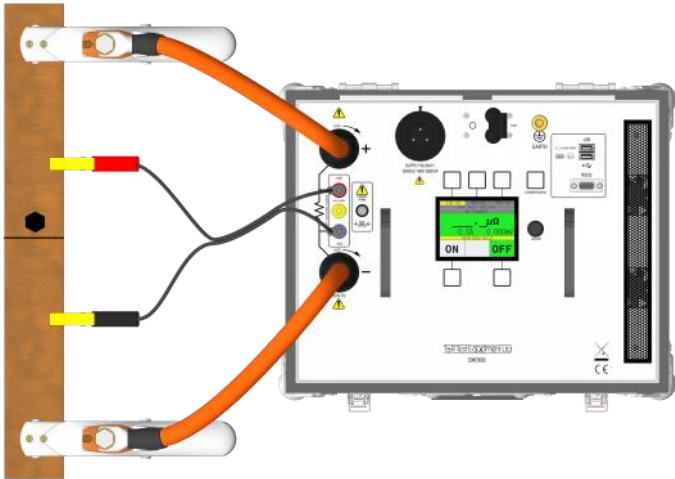


T&R Test Equipment Ltd

Example Applications

Busbar joint resistance

The DMO600 is ideal for measuring busbar joint resistance. Before making connections ensure that the supply is off and necessary earths have been applied. Connect the high current leads to the busbar, ensuring that the joint resistance to be measured is in the circuit. Connect the sense leads as close as possible to the joint to be measured. Select the desired test current using one of the preset test currents (or use the adjust knob to set a custom test current). Switch the output ON, and the current rises to the preset current. Switch the output OFF again, and the reading is held on the display.



Storing results

The DMO600 is supplied with a USB memory key and USB keyboard for storing annotated results. To enter or edit a comment tap the COMMENT/MENU button. The comment can then be edited using the keyboard. This comment is stored with each result until a new comment is entered. Each time the output of the unit is switched off the readings from the unit are saved to the USB memory key in CSV format along with the date, time and your comment.

The CSV file can be opened with any spreadsheet program such as Microsoft Excel™ or OpenOffice Calc.

A	B	C	D	E	F	G	H	I	J
1	DMO200	V1.00	C01						
2	Time	Date	Current	V	ohm	Re: Comment			
3	10:00:00	10/05/2010	200	2.00E-04	1.00E-06	Y South switchyard breaker 3 phase A			
4	10:01:10	10/05/2010	200	2.04E-04	1.02E-06	Y South switchyard breaker 3 phase B			
5	10:02:13	10/05/2010	200	2.02E-04	1.01E-06	Y South switchyard breaker 3 phase C			
6	10:00:00	10/05/2010	200	2.00E-04	1.00E-06	Y South switchyard breaker 4 phase A			
7	10:01:10	10/05/2010	200	2.04E-04	1.02E-06	Y South switchyard breaker 4 phase B			
8	10:02:13	10/05/2010	200	2.02E-04	1.01E-06	Y South switchyard breaker 4 phase C			
9									

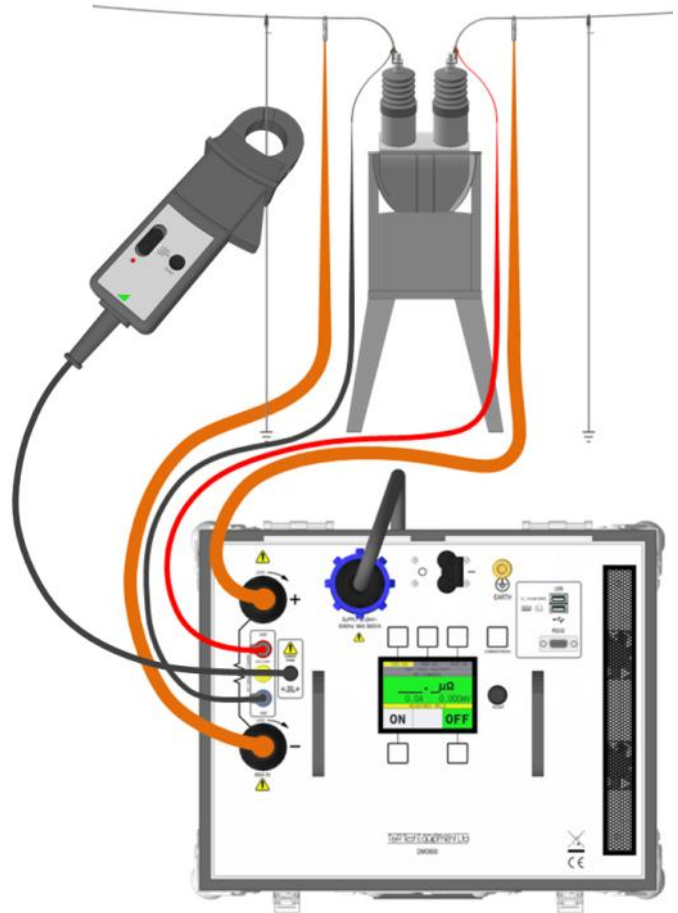
Optional accessories

DMO600 current clamp	Part no. A224-0001
Output/sense extension 3m in plastic case	Part no. A231-0004
Output/sense extension 5m in plastic case	Part no. A231-0005
Output/sense extension 10m in plastic case	Part no. A231-0006

Circuit breaker contact resistance

The DMO600 is suited to all low resistance measurements on power systems, and is particularly suited to measuring contact resistances on substation circuit breakers, isolators and grounding equipment. The unit has a powerful output capable of driving 600A through 20m output leads to reach the contacts of even the largest circuit breakers. Optional output lead extensions are available which extend the high current and sense leads by 3, 5 or 10m.

Accurate measurements on circuit breakers, isolators and grounding links with both sides earthed are simple with the optional current clamp. This allows the current flowing through the earthing equipment to be subtracted from the test current.



Details

Supply requirements:	90-265Vac 3800VA max
Output:	10-600ADC 5V
Resistance measurement:	0.1μΩ-5Ω

Dimensions

Standard Case:	380x314x211mm	15.8kg
Pelican Unit:	560x456x265mm	19.7kg

Accessories supplied with unit: Mains lead, user manual, 3m high current leads, 3m sense leads.

Weight

Note: Due to the company's continuous research programme, the information above may change at any time without prior notification. Please check that you have the most recent data on the product.

T&R Test Equipment Ltd, 15-16 Woodbridge Meadows, Guildford, Surrey, GU1 1BJ, UK

Tel: +44 (0)1483 207428 Fax: +44 (0)1483 511229 email: sales@trtest.com

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LOCATIONS

LONDON, HEATHROW

Sunbelt Rentals UK Test & Monitoring

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

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