

DMOM-200

DC Micro-ohm Meter



Vanguard Instruments Company

H.V. TEST (PTY) LTD

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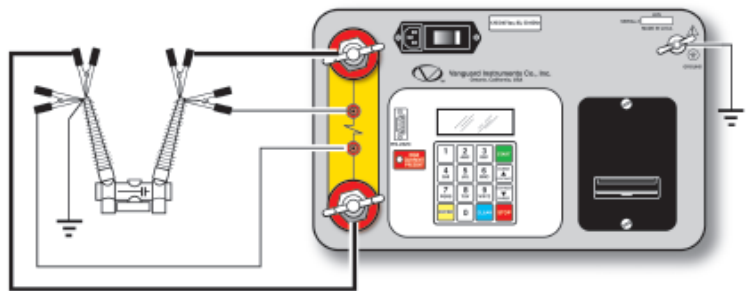
Email: sales@hvtest.co.za

Website: www.hvtest.co.za

Accurately

- Inexpensive
- Reliable
- Lightweight
- Easy to Use

- Thermal Printer
- Built-in Circuit Breaker
- Backlit LCD Display
(4-line by 20-Character)
- High Current Warning LED
- RS-232C Connector
- Sensing Lead Connector
- Current Lead Connector



FEATURES

- 10 TO 200 AMPERE TRUE CONTINUOUS DC CURRENT
- AUTOMATIC CONTROL OF CURRENT RISE AND FALL TIME
- DIGITAL RESISTANCE READING FROM 1 MICRO-OHM TO 300 MILLIOHMS
- STORE 6,000 READINGS
- 2.5-INCH BUILT-IN THERMAL PRINTER
- WEIGHT IS LESS THAN 23 LBS (10.5 kg)

Ordering Information

DMOM-200 Series 2 True DC Micro-ohmmeter

DMOM-200 with 30-ft Test Cables	Part No: DMOM-200 S2
DMOM-200 Shipping Case	Part No: DMOM-200 S2Case
DMOM-200 15-foot Test Cable	Part No: DMOM-200 S2 Cable-15ft
DMOM-200 30-foot Test Cable	Part No: DMOM-200 S2 Cable-30ft
C-Clamp Set (2 clamps)	Part No: DMOM-200 S2 C-Clamps-30ft
2.5-inch Thermal Paper	Part No: Paper - TP3



DMOM-200 / Series 2

The DMOM-200 Series 2 is a microprocessor-based, third-generation, true-DC micro-ohmmeter. It is designed for testing EHV circuit-breaker contact resistance, bushing contact joints, or for any low-resistance measurement. The DMOM-200 accurately measures resistances ranging from 1 micro-ohm to 300 milliohms.

The DMOM-200 meter conducts a true-DC current from 10A to 200A through the resistance load to be tested. The user can select any current setting through an alpha-numeric keypad on the front panel. Using a switching DC power supply and a current-regulator circuit, the DMOM-200 controls the test current's rise and fall rates. Since a true-DC ramped current passes through the breaker contacts, no magnetic transient is induced into the breaker's current transformer. Thus, risk of inductively tripping a breaker control (bus differential relay) is non-existent. A built-in thermal printer prints the test report on 2.5-inch wide thermal paper. An alpha-numeric keypad lets the users enter test information and control functions. Resistance reading and test current is displayed on a 4-line by 20 character backlit LCD.

Up to 63 records (of 96 readings) can be stored in the DMOM-200 FLASH EEPROM. Stored test reports can be recalled by the user to be printed or transferred to an IBM-compatible PC. An RS-232C serial interface port is also provided for computer interface and diagnostic test. A Windows-based software package (provided with each unit) allows the users to download test record to a PC. The user can then review, print or export test records.

The DMOM-200 is supplied with two 30-foot current cables and two 30-foot voltage sensing cables. Both cables are terminated with quick disconnect clips. Heavy duty welding type C-clamps are available as an optional accessory, which allows the user to connect test-cable leads to a wide variety and size of bushings, bus-bars, and other conductors requiring low-resistance test contacts.

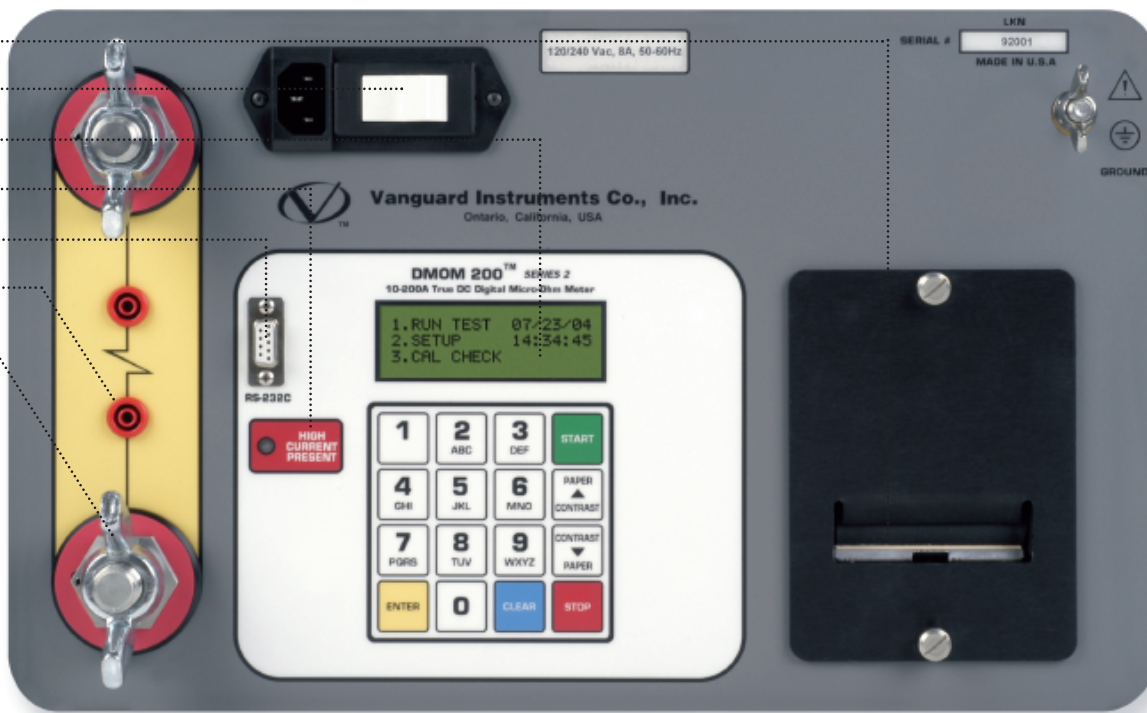
The DMOM-200 power supply is thermally protected. Test duration is selectable from 5 seconds to 60 seconds.

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Printed Test Results	
 Vanguard Instruments Co., Inc.	
REC NUMBER 7	
TEST RESULTS	
DATE: 01-08-03	TIME: 11:35:02
<small> COMPANY: _____ STATION: _____ CIRCUIT: _____ RPN: _____ MODEL: _____ S-N: _____ KW RATING: _____ OPERATOR: _____ </small>	
ACTIVE TEST:	181.99 MILLI-OHMS
TAP-LOADING:	_____
ACTIVE TEST:	171.01 MILLI-OHMS
TAP-LOADING:	_____
PASSIVE TEST:	175.38 MILLI-OHMS
TAP-LOADING:	_____
<small> DATE: 01-08-03 11:35:02 SERIAL: 92001 MODEL: DMOM 200 OPERATOR: _____ </small>	



SPECIFICATIONS

- TYPE** Special-purpose test equipment, portable, micro-ohmmeter
- PHYSICAL SPECIFICATIONS** 16.8" by 12.6" by 12.0" (42.7 cm x 32.0 cm x 30.5 cm), Weight: Less than 23 lbs (10.5 kg)
- INPUT POWER** 90-240 Vac, 50/60 Hz
- RESISTANCE READING RANGE** 1 micro-ohm to 300 milliohm
- ACCURACY** ±1% reading, ± 1 count
- TEST CURRENT RANGE** 10 Amperes to 200 Amperes, Selectable in 1A Steps
- DISPLAY** Backlit LCD, 4 lines by 20 characters
- PRINTER** 2.5-inch wide thermal printer
- KEYBOARD** Heavy duty keypad: 10 number keys, 6 function keys
- TEST RECORD STORAGE** Store 63 Records (of 96 Readings)
- COMPUTER INTERFACE** RS-232C, 19,200 Baud
- PC SOFTWARE** Windows® 95/98/NT/2000/XP-Based, included with purchase price
- SAFETY** Designed to meet IEC61010 (1995), UL61010A-1, CSA-C22.2
- ENVIRONMENT** Operating: -10°C to 50° C (15°F to +122° F); Storage: -30° C to 70° C (-22°F to +158° F)
- CABLES** 30-foot (#1AWG) Current Cables & Sensing Cables
- OPTIONS** Transportation Case
- WARRANTY** One Year Parts & Labor, Post Warranty Service Contract Available

Note: The above specifications are valid at nominal voltage and ambient temperature of +25°C (+77°F). Specifications are subject to change without notice.

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