

# Programma

## MOM200A Microhmmeter



- Measures contact resistance in circuit breakers, disconnecting switches, busbar connections, safety devices, etc.
- Easy to operate
- Designed for rugged field use
- Highly flexible cable connections
- Portable and lightweight, weighs only 14 kg (31 lbs)

### DESCRIPTION

This model is designed to check and measure contact resistances in high-voltage circuit breakers, disconnecting switches (isolators) and busbar joints. The MOM200A is an excellent choice when 200 amperes or less are needed for measurement.

Since the MOM200A weighs only about 14 kg (31 lbs), it is convenient to take along with you.

MOM200A is ideal for finding poor connections since it can put out 100 A for extended periods. Its range extending up to 20 milliohms makes it ideal for measuring many different types of connections.

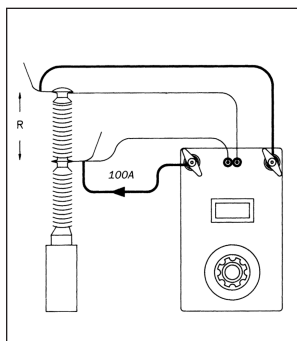
A complete MOM200A includes a cable set (including separate sensing cables) and a transport case.

### FEATURES AND BENEFITS

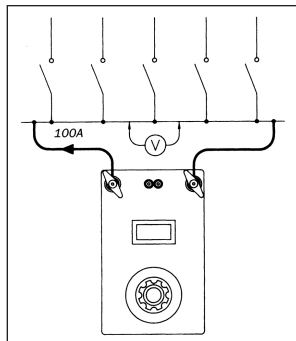
- Excellent instrument for taking measurements up to 200 A
- Small and lightweight which allows user to get close to device being tested with issue
- Can be used in conjunction with circuit breaker analyzers to assess circuit breaker contact resistance
- Wide measuring range 0 to 1999 microohms or 0 to 19.99 milliohms
- Large LCD
- Built-in ammeter and ohmmeter
- External ammeters can be connected

### APPLICATIONS

The figures below show application examples:



**Figure1. Measuring resistance of a circuit breaker**



**Measuring resistance at busbar joints**

**SPECIFICATIONS**

Specifications are valid at nominal input voltage and an ambient temperature of +25°C, (77°F). Specifications are subject to change without notice.

**Environment**

**Application field**

The instrument is intended for use in high-voltage substations and industrial environments.

**Personal safety**

Maximum permissible transient current through the external load is 12 mA. Maximum discharge time for internal high-voltage circuit is 0.3 s.

**Temperature**

**Operating:** 0°C to +50°C (32°F to +122°F)  
**Storage & transport:** -40°C to +70°C (-40°F to +158°F)  
**Humidity:** 5% – 95% RH, non-condensing

**CE-marking**

**LVD** Low Voltage Directive 73/3/EEC am. by 93/68/EEC

**EMC** EMC Directive 89/336/EEC am. by 91/263/EEC, 92/31/EEC and 93/68/EEC

**Display** LCD

**General**

**Power supply voltage** 115/230 V AC, 50/60 Hz  
**Power consumption** 1610 VA (max)  
**Protection** Miniature circuit breakers, thermal cutouts

**Dimensions**

**Instrument** 280 x 178 x 246 mm (11" x 7" x 9.7")  
**Transport case** 560 x 260 x 360 mm (22" x 10.2" x 14.2")  
**Weight** 14.6 kg (32.2 lbs)  
 26 kg (54.1 lbs) with accessories and transport case

**Current cables** 2 x 5 m 16 ft) 2.5 mm<sup>2</sup>  
**Sensing cables** 2 x 5 (16 ft) 2.5 mm<sup>2</sup>

**Measurement Section**

**Resistance**

**Range** 0 - 1999 microohms  
 0 - 19.99 milliohms

**Resolution** 1 milliohm  
 10 milliohms

**Accuracy** ±1% of reading +1 digit

**Output**

**Current** 0 - 200 A DC  
**Open circuit voltage** 4.7 V DC  
**Current shunt output** 10 mV/100 A 0.5%, max 20 mV out, max 10 V to protective earth (ground).

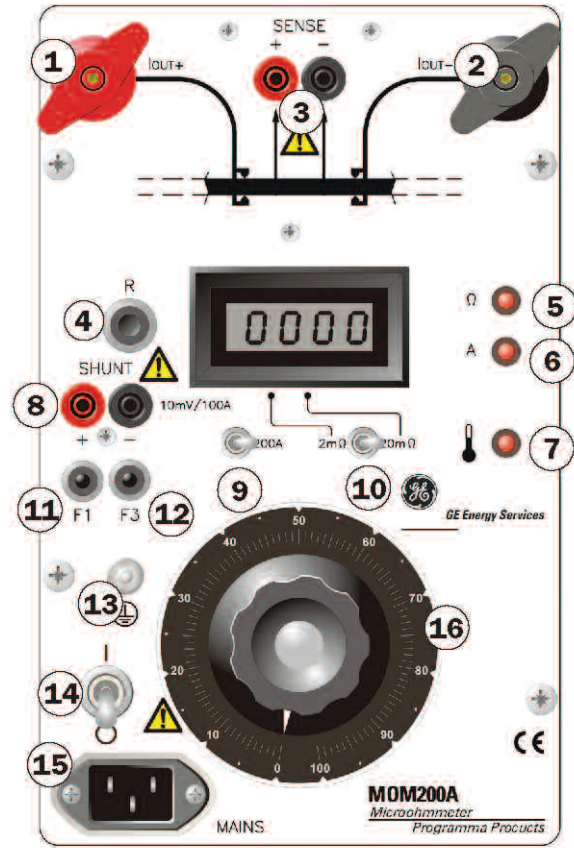
**Max Load Capacity**

Current adjustment set to 100%

<b>Output Current</b>	<b>Min. Output Voltage</b>	<b>Max Load Time</b>	<b>Rest Time</b>	<b>Input Current at 115/230 V AC</b>
100 A dc	3.8 Vdc	5 min. 15 min.	15 min. 60 min.	-----
200 A dc	3.0 V dc	20 s	5 min.	14 A/7 A

**CONTROL PANEL FOR MOM200A**

1. Positive current output
2. Negative current output
3. Sensing terminal
4. Resistance button
5. LED, resistance
6. LED, current
7. LED, thermal cutout
8. Current-shunt terminal
9. Current range switch
10. Resistance range switch
11. Miniature circuit breaker for mains
12. Miniature circuit breaker for variable transformer
13. Grounding terminal
14. On/Off switch
15. Mains inlet
16. Variable transformer



**ORDERING INFORMATION**

Item	Cat. No.	Item	Cat. No.
MOM200A, 115 V mains voltage	BD-11190	<b>Optional accessories</b>	
MOM200A, 230 V mains voltage	BD-12390	Cable set 10 m	
<b>Included Accessories</b>		2 x 10 m (33 ft), 35 mm <sup>2</sup> (current cables)	
Cable set	GA-02053	2 x 10 m (33 ft), 2.5 mm <sup>2</sup> (sensing cables)	
		Weight: 9 kg (19.8 lbs)	GA-03103
		Cable set 15 m	
		2 x 15 m (49 ft), 50 mm <sup>2</sup> (current cables)	
		2 x 15 m (49 ft), 2.5 mm <sup>2</sup> (sensing cables)	
		Weight: 18.6 kg (40.9 lbs)	GA-05153
		Calibration shunt, 200 A/20 mV	BD-90022

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