Megger.

MOM600A Microhmmeter



- Compact and rugged
- Easy-to-use
- 600 A output current

Description

Switchgear breakdowns are frequently caused by excessively high contact resistance at breakpoints and busbar joints. Moreover, overheating risks are becoming more serious due to the fact that today's distribution networks have to carry heavier loads. Checking contact resistances at regular intervals detects faults before they cause overheating. And here, an ounce of prevention is worth a pound of cure.

Microhmmeters are used to measure contact resistances in highvoltage breakers, disconnecting switches (isolators), knife-contact fuses, bus joints, line joints etc.

The MOM600ATM is in a class apart on world markets. Designed for use from the arctic to the tropics, this rugged, compact microhmmeter is ideal for field work.

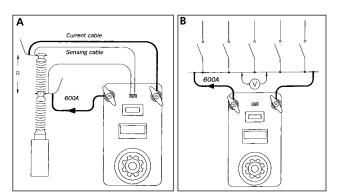
A complete set of equipment includes a set of highly flexible cables (including separate measurement cables) and a sturdy transport case.

Application examples

IMPORTANT!

Read the User's manual before using the instrument.

- A. Measuring the resistance of a circuit breaker element
- 1. Connect the microhmmeter to the circuit breaker.
- 2. Set the current (100 A in this example).
- 3. Press the resistance pushbutton.
- 4. Read the result.
- B. Measuring the resistance of busbar joints
- 1. Connect the microhmmeter's current cables to the object being tested. Do not connect the sensing cables since measurements will be taken using an external movable voltmeter.
- 2. Set the current (100 A in this example).
- 3. Connect an external voltmeter to the bus.
- 4. Read the voltmeter (0.1 mV = 1 $\mu\Omega$ in this example).
- 5. Move the voltmeter to the next joint.
- 6. Repeat step 4.





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

Temperature Operating Storage & transport Humidity

CE-marking EMC

IVD

General

Mains voltage Power consumption (max)

Protection

Dimensions Instrument

Transport case

Weight, 115 V model

Weight, 230 V model

Current cables Sensing cables The instrument is intended for use in high-voltage substations and industrial environments

0°C to +50°C (32°F to +122°F) -40°C to +70°C (-40°F to +158°F) 5% – 95% RH, non-condensing

2004/108/EC 2006/95/EC

115/230 V AC, 50/60 Hz 115 V, 4370 VA 230 V, 7360 VA Miniature circuit breakers, thermal cut-outs

356 x 203 x 241 mm (14" x 8" x 95") 610 x 290 x 360 mm (24.0" x 11.4" x 14.2") 25 kg (55.1 lbs) 43.1 kg (95 lbs) with accessories and transport case 24.7 kg (54.5 lbs), 42.8 kg (94.4 lbs) with accessories and transport case 2 x 5 m (16 ft), 50 mm² 2 x 5 m (16 ft), 2.5 mm²

Measurement section

Resistance					
Range	0 – 1999 μΩ				
Resolution	1 μΩ				
Inaccuracy	±1% of reading + 1 digit (at 100 – 600 A test current)				
Output, 115 V model					
Current	0 – 600 A DC				
Open circuit voltage	5.2 V DC				
Current shunt output	10 mV/100 A \pm 0.5%, max 60 mV out, max 10 V to protective earth (ground)				
Output, 230 V model					
Current	0 – 600 A DC				
Open circuit voltage	9 V DC				
Current shunt output	10 mV/100 A \pm 0.5%, max 60 mV out, max 10 V to protective earth				

Max. load capacity, 115 V model

Current adjustment set to 100%

current adjustment set to roo /o							
	Output cur- rent	Min. output voltage	Max. load time	Rest time	Input current		
	100 A DC	4.6 V	-	-	8 A		
	300 A DC	3.8 V	1.5 min.	15 min.	20 A		
	600 A DC	2.6 V	10 s	5 min.	38 A		
			_	_			

(ground)

Max. load capacity, 230 V model at adjustment set to 100%

Current adjustment set to 100%							
Min. output voltage	Max. load time	Rest time	Input current				
8.3 V	-	-	6 A				
7.2 V	2.5 min.	15 min.	16 A				
5.6 V	15 s	5 min.	32 A				
	Min. output voltage 8.3 V 7.2 V	Min.Max.outputloadvoltagetime8.3 V-7.2 V2.5 min.	Min. output voltageMax. load timeRest time8.3 V7.2 V2.5 min.15 min.				

Ordering information Item Art. No. **MOM600A** Complete with: Cable set GA-02053 Ground cable GA-00200 Transport case GD-00010 115 V Mains voltage BB-11190 230 V Mains voltage BB-12290 Optional Cable set 10 m 2 x 10 m (33 ft), 70 mm² (current cables). 2 x 10 m (33 ft), 2.5 mm² (sensing cables) GA-07103 Weight: 16.8 kg (37 lbs)

Cable set 15 m 2 x 15 m (49 ft), 95 mm² (current cables). 2 x 15 m (49 ft), 2.5 mm² (sensing cables) Weight: 29.4 kg (65 lbs) GA-09153 **Calibration shunt** 600 A/60 mV BB-90020

Other Technical Sales Offices

Dallas USA, Norristown USA, Toronto CANADA, Trappes FRANCE, Oberursel GERMANY, Johannesburg SOUTH AFRICA, Kingdom of BAHRAIN Mumbai INDIA, Chonburi THAILAND Sydney AUSTRALIA

Registered to ISO 9001 and 14001 Subject to change without notice. Art.No. ZI-BB05E • Doc. BB0375BE • 2009 MOM600A_DS_en_V01 www.megger.com Megger is a registered trademark

SWEDEN

Megger Sweden AB Eldarvägen 4, Box 2970 SE-187 29 TÄBY T +46 8 510 195 00 +46 8 510 195 95 E seinfo@megger.com

UK Archcliffe Road Dover CT17 9EN England T +44 (0) 1304 502101 F +44 (0) 1304 207342