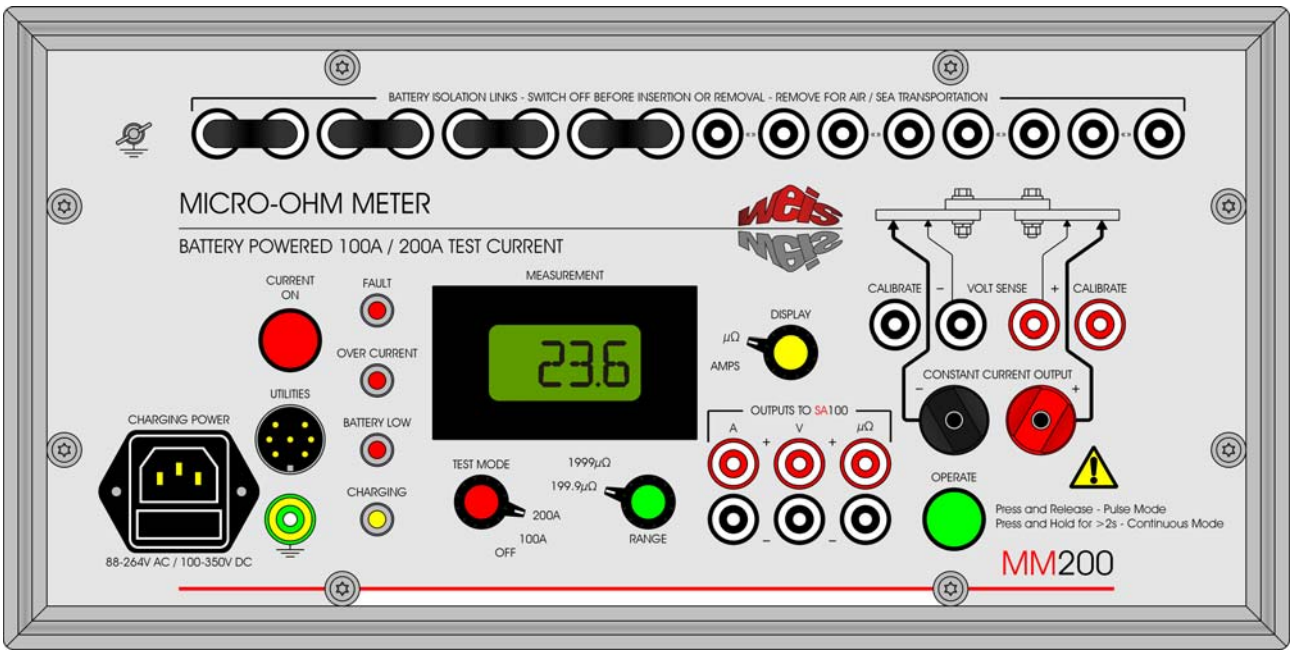

MM200

Micro-Ohm Meter

Self Powered 100A / 200A Test Current

Micro-Ohm Meter MM200

Introduction

In response to ever growing demands for safer and more accurate methods of testing circuit breakers, Weis has developed the ***Self Powered*** MM200 portable micro-ohm meter. It is used for measurement of resistance (μΩ) by injecting a heavy current through a breaker contact or load carrying joint.

A fixed regulated test current output of 100A pure DC or 200A pure DC is used in either pulsed or true continuous test modes, for static resistance measurement.

As a stand-alone unit, static testing can be performed with a direct readout on a built in LCD meter. When used in conjunction with the Weis SA100, SA100R or SA100RS switchgear analyser / breaker tester (having a travel input for breaker mechanism movement), a dynamic micro-ohm test can be made that will give detailed information about the state of fixed contact surfaces, moving contact surfaces, main contact, arcing contact and the complete current circuit of the breaker in every step during a close-open operation.

Technical Specification

MEASUREMENT OUTPUT

Current: 100 or 200A DC regulated (up to 4V).
No-Load Voltage: 5V DC maximum.
Operation: 100A pulse with 2 second duration.
200A pulse with 2 second duration.
100A continuous (no time limit).
200A continuous (no time limit).
Safety: Re-settable thermal / magnetic circuit breaker.
Connectors: Heavy duty wing-nut.

MEASUREMENT INPUT

Range: 0 to 199.9μΩ or 0 to 1999μΩ.
Resolution: 0.1 or 1μΩ (range dependant).
Accuracy: 1% of reading +/- 1 digit.
Voltage Sense: 1 x voltage input from contact / joint.
Connectors: 4mm safety socket.

OUTPUTS

Analogue: 3 x conditioned outputs representing measured Voltage Drop, Current Level and Micro-Ohms (SA100 / SA100R / SA100RS required).
1 x Calibrate for calibration check.
Connectors: 4mm safety socket.

GENERAL SYSTEM

Back-lit 3½ digit LCD for readout of Micro-Ohms or Amps (switch selectable).
Current On lamp indication (red).
Unit Armed lamp indication (green).
Trigger In (volt free contact) for Dynamic Micro-Ohm Test (SA100 / SA100R / SA100RS required) and Trigger Out (15V logic).
Intermittent audible during continuous operation.
'Operate' push button for Pulse mode or Continuous with stop mode of operation.
Rotary Mode selector switch for Off / 100A / 200A.
Rotary Range selector switch for 199.9μΩ or 1999μΩ.
LED indicators for Fault, Over Current, Battery Low and Charging.
Multipurpose accessory socket for in-car charging, remote meter, power out, trigger in and trigger out.

OPERATING VOLTAGES

Prime Power: Internal sealed rechargeable batteries.
Recharge Power: 110 to 330V DC or 85 to 265V AC (47 to 440Hz) auto-sensing.
In-Car 12V DC @ 3A (negative earth).
Burden: <100VA load.

ENVIRONMENTAL

Operating Temperature: -20ºC to 70ºC (-4ºF to 158ºF).
Humidity: 0 to 97% RH non-condensing.
Isolation: 2kV rms for 1 minute (input / output to ground).
Surge Withstand Transient: To IEC 801-5. 5kV, 1.2/50μSec, 0.5 joule.
Common Mode: Severity level class 4.
Series Mode: Severity level class 3.
RF Immunity: To IEC 801-3 level 3.
10V/m 26-1000MHz.
Emissions: To EN50081-1: 1992.

MECHANICAL DETAILS

Case: Reinforced aluminium, 370mm wide x 185mm deep x 350mm high.
Weight: <10kg.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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