

Micro-Ohm Meters

MRM Series, 10-200 Amp

Testing Applications

Accurately measure very low contact resistances of breakers, switches, busbars, motors, generators, or any application where low resistance current is required.

Safety and Design Features

- Microprocessor controlled
- 4-wire Kelvin measurement
- Easy to read digital screen display
- IEC safety compliant
- Separate Cable/Accessory carrying case

Models Available

- MRM-10
- MRM-100
- MRM-10E
- MRM-200

- **Lightweight** and **ruggedly constructed**
- **Reliable** and **accurate** measurements in the **laboratory** or in the **field**
- Printable test results via **external printer** or **built-in printer**



Model MRM-10
10 Amps



Model MRM-10E
10 Amps with improved accuracy



Model MRM-100
100 Amps



Model MRM-200
200 Amps



MODEL	MRM-10	MRM-10E	MRM-100	MRM-200
TEST CURRENT	1 mA - 10 A	1 mA - 10 A	10 A - 105 A	5 A - 200 A (True DC)
RESISTANCE RANGES	0-2000 $\mu\Omega$ @ 10 A 0-20 m Ω @ 10 A 0-200 m Ω @ 1 A 0-2000 m Ω @ 100 mA 0-20 Ω @ 10 mA 0-200 Ω @ 1 mA	0-2000 $\mu\Omega$ @ 10 A 0-20 m Ω @ 10 A 0-200 m Ω @ 1A 0-2000 m Ω @ 100 mA 0-20 Ω @ 10 mA 0-200 Ω @ 1 mA	1 $\mu\Omega$ to 240 m Ω	0.1 $\mu\Omega$ to 2 m Ω , with 0.1 $\mu\Omega$ resolution 2 m Ω to 200 m Ω , with 10 $\mu\Omega$ resolution 200 m Ω to 1 Ω , with 1 m Ω resolution
RESOLUTION	1 $\mu\Omega$ @ 10 A	0.1 $\mu\Omega$ @ 10A	1 $\mu\Omega$ to 199 $\mu\Omega$: 0.1 $\mu\Omega$ 200 $\mu\Omega$ to 1999 $\mu\Omega$: 1.0 $\mu\Omega$ 2.00 m Ω to 19.99 m Ω : 0.01 m Ω 20.0 m Ω to 240.0 m Ω : 0.1 m Ω	up to 0.1 $\mu\Omega$
INPUT	100-240 V, 50/60 Hz	100-240 V, 50/60 Hz	120 VAC, 60 Hz or 230 VAC, 50/60 Hz, 5 A	100-240 V, 50/60 Hz
BASIC ACCURACY	\pm (0.2% of reading \pm 2 digits)	\pm (0.1% of reading + 0.005% of full scale)	\pm (1% of reading \pm 0.4 $\mu\Omega$ at 100 A) or (\pm 4 $\mu\Omega$ at 10 A)	\pm 0.5% of measured value
PROTECTION	n/a	n/a	Thermal	Overcurrent, short-circuit and thermal
OPERATING TEMPERATURE	-5°C to 50°C	-5°C to 50°C	-5°C to 50°C	-5°C to 50°C
STORAGE TEMPERATURE	-25°C to 65°C	-25°C to 65°C	-20°C to 57°C	-10°C to 60°C
HUMIDITY	<90%, non-condensing	<90%, non-condensing	<90%, non-condensing	<90%, non-condensing
ADVANCED FEATURES	Powered by rechargeable battery Measured value display hold function	Powered by rechargeable battery Measured value display hold function	Full Keypad—Allows easy entry of test descriptions and parameters Integrated printer	Programmable set-up test time 5-120 seconds Software w/automatic report generator, including operator's comments Built-in memory with capacity to store 50 registers with 80 readings each
DIMENSIONS				
Length	15" (378 mm)	15" (378 mm)	16.5" (419 mm)	20" (502 mm)
Width	12" (308 mm)	12" (308 mm)	15.25" (387 mm) W	15.5" (394 mm)
Height	7" (175 mm)	7" (175 mm)	11.25" (286 mm)	7.5" (190 mm)
WEIGHT	19 lbs (8.7 kgs)	17 lbs (7.6 kgs)	28 lbs (13 kgs)	45 lbs (20.5 kgs)
ACCESSORIES Included	2 Combined test leads (current and potential) 1 Charger Power cord 1 RS232 cable User guide 1 Synthetic bag for cables and instrument	2 Combined test leads (current and potential) 1 Charger Power cord 1 RS232 cable User guide 1 Synthetic bag for cables and instrument	1 Input Power cable 6' (2 m) 2 Output/Sense cables 30' (9 m) 1 Canvas bag for cables User guide	2 Output/Sense cables 20' (6 m) 1 Ground cable 1 Power cord 1 USB Communication cable 1 Carrying case for the test leads 1 Software license User guide



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ISO
9001:2008
Compliant

