



DIGITAL MOTOR CHECKER EMC-38

Electric Motor, Generator and Transformer Trouble Shooter Know in a few minutes what the problem is: Electrical or Mechanical? Coil or Rotor, Internal Fault or Ground Fault ?



Features:

- ❖ Insulation Resistance (IR) Measurement
- ❖ Identify open and short circuits / loose connections in a winding coil
- ❖ Identify inter turn shorts.
- ❖ Detect rotor bar problems without dismantling the rotor
- ❖ Inductance of the winding with respect to different positions for rotor for detecting blow holes or cracks in the rotor bars.
- ❖ Simple operation, accurate & quick assessment of motor condition.
- ❖ Shock Proof Rubber Casing

Fast Checks of On-Site Motors:

EMC-38 is a Digital portable diagnostic tool for Electrical Engineer and is used for quick on - site checks of electric motor and other three - phase machines.

A reduction in machine performance, such as inefficient operation or tripping of overloads, may indicate mechanical or electrical faults. If the fault is electrical the EMC-38 will immediately detect it, without having to dismantle the equipment.

The instruments has three separate operating modes to measure different types of faults like fully insulation, **open circuits** / **loose connections**, **short circuits** and **rotor defects**. Motor insulation is tested with a high voltage at **500V & 1000V** DC supplied by the instrument.

Technical Specifications

A) INSULATION RESISTANCE : 0 – 200 MΩ at 500 V DC ± (2% + 1digit), 0.1 MΩ resolution
0 – 2000 MΩ at 1000 V DC ± (2% + 1digit), 1 MΩ resolution

B) RESISTANCE:	<u>RANGE</u>	<u>RESOLUTION</u>	<u>TOLERANCE</u>
	0 - 200 milli Ω	0.10 milli Ω	± 2%
	0 – 2 Ω	0.001 Ω	± 2%
	0 – 20 Ω	0.01 Ω	± 2%
	0 – 200 Ω	0.10 Ω	± 2%

C) INDUCTANCE:	<u>RANGE</u>	<u>RESOLUTION</u>	<u>TOLERANCE</u>
	0 – 2 mH	0.001 mH	± 3%
	0 – 20mH	0.01 mH	± 3%
	0 –200 mH	0.1 mH	± 3%
	0 –2000 mH	1 mH	± 3%

* Display:3½ LCD * Temp.Range:0- 55°C * Size:210x125x65 * Weight:1000gms * Power:1.5V x 6 AA size Cells

Standard Supply:

- 1) Motor Checker EMC-38, 2) Leads (Clips)-1set, 3) Batteries-6 nos,
- 4) Test & Calibration Report with Warranty/Guarantee Certificate, 5) Manual & 6) Carry Case.

Technical Data are subject to change without Prior Notice.

MCM INSTRUMENTS

(An ISO 9001:2015 Certified Company)

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