

NEW

# DIGITAL MOTOR CHECKER EMC-38A

- Electric Motor, Generator and Transformer Trouble Shooter
- Know in a few minutes what the problem is: Electrical or Mechanical
- Complete Condition of your STATOR, ROTOR, Coil, Connections, internal fault or ground fault



## Features:

- Very handy
- Light Weight
- Built-in Rechargeable battery pack
- Insulation Resistance (IR) Measurement
- Identify open and short circuits / loose connections in a winding coil
- Identify interterm 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.
- Low battery Indication

## PREDICTIVE MAINTENANCE:

Regular testing can identify developing faults before a failure occurs. All measurement data can be trended for predictive maintenance condition monitoring. By making proactive repairs and eliminating unscheduled down- time, plant productivity is greatly improved.

**EMC-38A** 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-38A will immediately detect it, without having to dismantle the equipment. The instrument has three separate operating modes to measure different types of faults like fully insulation, open circuits / loose connections, short circuits, Ground faults and rotor defects. Motor insulation is tested with a high voltage of 500V & 1000V DC supplied by the instrument.

**Motor Checker EMC-38A** finds the faults you can't see with any other hand – held instrument

- Turn -to-turn , coil-to-coil and phase-to-phase faults
- Open phase
- Burned or contaminated winding
- Poor Connections
- Broken / Cracked rotor bars
- Grounded windings
- Cable faults.



## Technical Specifications

A) <b>INSULATION RESISTANCE:</b>	0 – 200 MΩ at 500 V DC $\pm$ ( 2% + 1digit), 0.1 MΩ resolution 0 – 2000 MΩ at 1000 V DC $\pm$ (2% + 1digit), 0.1 MΩ resolution		
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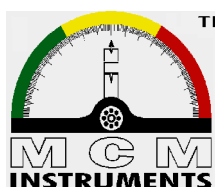
B) <b>RESISTANCE</b>	<b>RANGE</b>	<b>(OHMS) F.S.R</b>	<b>RESOLUTION</b>
	1	200	0.10Ω
	2	20	0.01 Ω
	3	2	0.001 Ω
	4	0.2 (200mΩ)	0.10 milli Ω

C) <b>INDUCTANCE</b>	<b>RANGE</b>	<b>(mH) F.S.R</b>	<b>RESOLUTION</b>
	1	2000	1 mH
	2	200	0.1 mH
	3	20	0.01 mH
	4	2	0.001 mH

- Display: 3½ LCD
- Temp. Operating range: 0- 55°C
- Size: 237x131x45
- Weight: 500gms
- Power: Internal Rechargeable battery pack
- Enclosure: Moulded in high impact ABS

### Standard Supply:

1. Motor Checker EMC-38A with built-in battery pack
2. Test Lead Clips 2nos
3. Battery Charger
4. Instruction Manual
5. Calibration Test Report
6. Guarantee Certificate
7. Carry Bag



## MCM INSTRUMENTS

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