

# 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 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.
- Shock proofed rubber casing
- Low battery Indication

## Fast Checks of On-Line 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 of **500V & 1000V** DC supplied by the instrument.

## Technical Specifications

A) **INSULATION RESISTANCE:** 0 – 200 M $\Omega$  at 500 V DC  $\pm$  ( 2% + 1digit), 0.1 M $\Omega$  resolution  
0 – 2000 M $\Omega$  at 1000 V DC  $\pm$  ( 2% + 1digit), 0.1 M $\Omega$  resolution

B) **RESISTANCE:**      RANGE                      RESOLUTION

0 - 200 milli  $\Omega$                       0.10 milli  $\Omega$

0 – 2  $\Omega$                                       0.001  $\Omega$

0 – 20  $\Omega$                                       0.01  $\Omega$

0 – 200  $\Omega$                                       0.10  $\Omega$

C ) **INDUCTANCE:**      RANGE                      RESOLUTION

0 – 2 m H                                      0.001 mH

0 – 20mH                                      0.01 mH

0 –200 mH                                      0.1 mH

0 –2000 mH                                      1 mH

\* Display:3½ LCD \* Temp.Range:0- 55°C \* Size:210x125x65 \* Weight:1000gms \* Power: 6 AA size  
(Battery Pack with Charger Optional)

## MCM INSTRUMENTS

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