

MOTOR CHECKER EMC – 25Plus

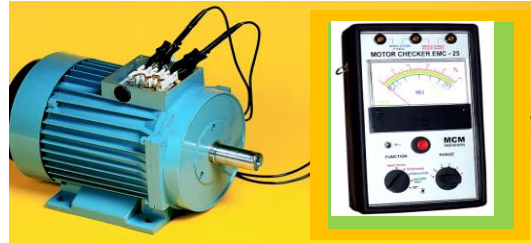
Electric Motor, Generator and Transformer Trouble Shooter

Know in a few minutes what the problem is: Electrical or Mechanical? Coil or Rotor, Internal Fault or Ground Fault?



Features:

- ❖ Insulation Resistance Measurement (IR)
- ❖ 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-25Plus is a portable diagnostic tool for Electrical Engineer and is used for quick on site checks of electric 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-25Plus will immediately detect it, without having to dismantle the equipment.

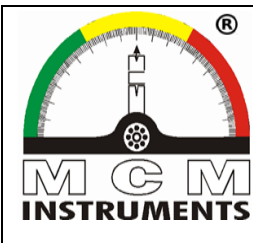
The EMC-25Plus may also be used to check quality and condition of motors which have been in storage before they are installed. The instrument has three separate operating modes to measure different types of fault like **fully insulation, open circuits / loose connections, short circuits and rotor defects**. Motor insulation is tested with a high voltage at 500V DC supplied by the instrument.

Technical Specifications:

Insulation Resistance: ± 5%	0 - 20 Meg ohms at 500V DC ± 10%, (max. current 0.25mA)
Resistance: Accuracy from 50% to 100% ± 2% of FSD Value Accuracy from 25% to 50% ± 5% of FSD Value	0 - 200 ohms in 6 ranges (0.2Ω, 0.6Ω, 2Ω, 6Ω, 20Ω & 200Ω)
Inductance: Accuracy from 50% to 100% ± 5% of FSD Value Accuracy from 25% to 50% ± 8% of FSD Value	0-1000mH in 6 ranges(3mH, 10mH, 30mH, 100mH 300mH & 1000mH)
Rotor Test	0-1000mH in 6 ranges(3mH, 10mH, 30mH, 100mH, 300mH & 1000mH)
Electronic Zero set facility	Available
Low Battery Indication	Available
Power	1.5V x 6 AA size cells
Operating Temp. range	0 - 55°C
Size	210x125x65
Weight	1000gms (Approx.)

Standard supply:

- 1) Motor Checker EMC-25Plus
- 2) Test Leads (Clips)-1set
- 3) Batteries-6 nos
- 4) Shoulder strap
- 5) Calibration Certificate
- 6) Warranty/ Guarantee Certificate
- 7) Instruction Manual
- 8) Carry Bag.



MCM INSTRUMENTS

An ISO 9001:2015 Certified Company

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