

# DIGITAL MOTOR CHECKER EMC-28

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-28 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-28 will immediately detect it, without having to dismantle the equipment.

The EMC-28 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 faults like faults 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:

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

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

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

\* Display: 3½ LCD \* Low battery Indication \* Operating Temp. Range: 0- 55°C

\* Size: 210 x 125 x 65 \* Weight : 1000gms (Approximately)

\* Power : 1.5V x 6 AA size cells / (Optional Accessory: Rechargeable Battery Pack with Charger)

## Standard Supply:

- 1) Motor Checker EMC-28, 2) Test Leads (Clips)-1set, 3) Batteries-6 nos,
- 4) Test & Calibration Report with Warranty/Guarantee Certificate, 5) Manual & 6) Carry Case.