



## Products for Automobile

- ✓ Powerguard
- ✓ Digital Multimeters
- ✓ Digital Clampmeters
- ✓ Insulation Testers
- ✓ Battery Meters
- ✓ Environmental Testing Instruments
- ✓ Infrared Thermometer



**+60** YEARS  
ONE MISSION



Reliable



Long-Lasting



Affordable

## POWERGUARD

MECO supports  
Bureau  
of Energy Efficiency  
(BEE), Govt. of  
India's mission  
to institutionalize  
certification of  
Electric / Electronic  
goods for **ECOMARK**  
under  
Gazette of India



- ✓ Three Pin Socket & Plug Suitable for Indian Socket
- ✓ W (0.2 - 2200W)
- ✓ Measures V, mA, W, PF, CO<sub>2</sub> in Kg, Total Usage  
Time, Money, Tariff, Hz, Timer & KWh
- ✓ TRMS V (195 - 265V AC)
- ✓ TRMS mA (Upto 10000mA max.)
- ✓ Memory Retention
- ✓ Built - In Programmable ON / OFF Relay

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## POWERGUARD -TRMS

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to institutionalize  
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Electric / Electronic  
goods for **ECOMARK**  
under  
Gazette of India



- ✓ Three Pin Socket & Plug Suitable for Indian Socket
- ✓ Active Power (0.026 – 4.800KW)
- ✓ Measures V, A, KW, PF, CO<sub>2</sub> in Kg, Hz & KWh
- ✓ TRMS V (195 – 265V AC)
- ✓ TRMS A (0.110 – 20.00A AC)
- ✓ Apparent Power (KVA)
- ✓ Reactive Power (KVAr)
- ✓ Energy Usage Time (EUT)

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## 3½ Digit 2000 Counts Digital Multimeter



- ✓ 600V DC / AC
- ✓ 10A DC
- ✓ Resistance
- ✓ Audible Continuity, Diode Test
- ✓ hFE (Transistor Test), Data Hold
- ✓ Backlight Display, Holster
- ✓ CAT II 600V
- ✓ Voltage Protection In Ohm / Diode / Continuity Ranges
- ✓ Fuse Protection In mA Current Ranges

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## 3½ Digit 2000 Counts Digital Multimeter

CE



- ✓ 1000V DC & 750V AC
- ✓ 10A DC / AC
- ✓ Holster + Magnet
- ✓ Torch Light + Backlight
- ✓ NCV (LED, Buzzer & EF Strength)
- ✓ Resistance, hFE (Transistor Test)
- ✓ Audible Continuity
- ✓ Diode Test
- ✓ Data Hold
- ✓ Auto Power Off

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## 3½ Digit 6000 Counts 600A DC / AC – TRMS Digital Clampmeter

CE



- ✓ 600V & 600A DC / AC
- ✓ Resistance, Capacitance, Frequency
- ✓ Temperature (K Type Thermocouple)
- ✓ NCV (LED, Buzzer & EF Strength)
- ✓ Torch Light + Backlight
- ✓ Duty Cycle
- ✓ Diode Test, Audible Continuity
- ✓ Data Hold
- ✓ Auto Power Off

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## 3½ Digit 6000 Counts 600A DC / AC – TRMS Digital Clampmeter

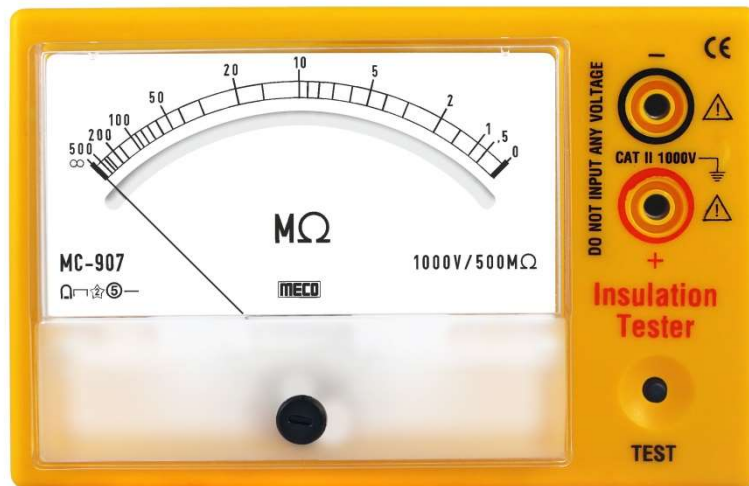


- ✓ 600V & 600A DC / AC
- ✓ Temperature (K Type Thermocouple)
- ✓ NCV (LED, Buzzer & EF Strength)
- ✓ Backlight + Torch Light
- ✓ Resistance, Capacitance, Frequency
- ✓ Duty Cycle, Diode Test, Audible Continuity
- ✓ LoZ (DCV / ACV) & VFC
- ✓ Data Hold
- ✓ Auto Power Off

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## Analog Insulation Tester

CE



- ✓ Single Person Push Button Operation
- ✓ Meets IEC 61010, CAT II
- ✓ Designed As Per IS 10656-1983
- ✓ Battery Adaptor (Optional - BA Series)

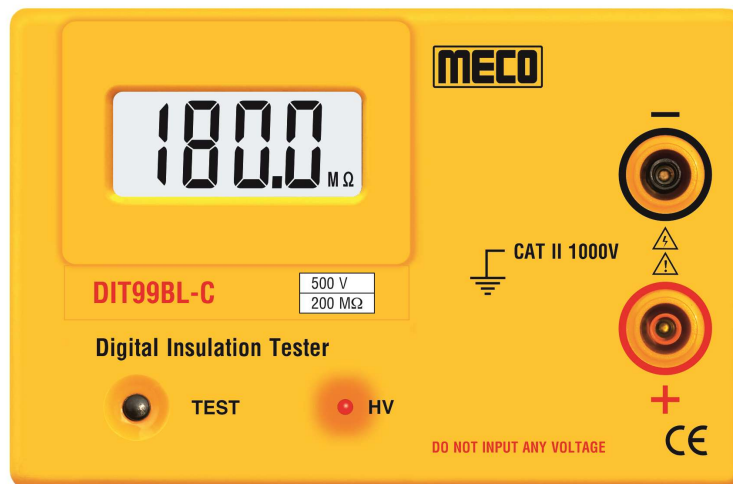
Model	Range	Test Voltage DC
MC-901	0 - 20 MΩ	100V
MC-903	0 - 100 MΩ	500V
MC-904	0 - 500 MΩ	500V
MC-941	0 - 1000 MΩ	500V
MC-906	0 - 200 MΩ	1000V
MC-907	0 - 500 MΩ	1000V
MC-981	0 - 2000 MΩ	1000V

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## Digital Insulation Tester

CE



- ✓ Single Person Push Button Operation
- ✓ Meets IEC 61010, CAT II
- ✓ Designed As Per IS 10656-1983
- ✓ Battery Adaptor (Optional - BA Series)

Model	Range	Test Voltage DC
DIT99BL - A	0 - 20 MΩ	100V
DIT99BL - B	0 - 200 MΩ	500V
DIT99BL - C	0 - 200 MΩ	500V
DIT99BL - D	0 - 200 MΩ	500V
DIT99BL - E	0 - 2000 MΩ	1000V

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## Battery (Load) Meter



- ✓ 4 To 500Ah
- ✓ 2V, 6V, 12V DC
- ✓ DC Voltmeter upto 0 - 15V DC
- ✓ Internal Resistive Load
- ✓ Battery Condition as OK (Green, WEAK (Yellow) & BAD (Red)
- ✓ Applications : Batteries of Cars, Motor Cycles, UPS, Generators, Automobile, Emergency Lights, Solar Power etc.

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## Digital Battery (Load) Meter

CE



- ✓ 40 To 200Ah
- ✓ 6V / 12V DC
- ✓ Battery Condition as GOOD / WEAK / BAD
- ✓ Internal Resistive Load, Auto Data Hold
- ✓ Built-In Timer to Auto Cut-OFF Load After Test
- ✓ Temperature Rise is Controlled (for Circuit Protection)
- ✓ Two Way Internal Resistance Measurement (Load Test & 4 Wire Method)
- ✓ Overload Protection of Input Voltage

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## Motorcycle / Two Wheeler Battery Meter



- ✓ 3 To 20Ah & Voltage Range 9 ~ 16V ± 3%
- ✓ Internal Resistance 0 - 99mΩ
- ✓ Battery Condition as GOOD / CAUTION / REPLACE
- ✓ Reverse Polarity Protection
- ✓ Loose Lead Detection
- ✓ Overload Voltage Protection
- ✓ Three Testing References of Battery Type (Wet Charged Battery), CCA Rating (Dry Charge Battery) and Ah Rating (General Purpose Cracking Battery)

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## Vehicle Battery System Meter with Built-In Printer

CE



- ✓ 100 ~ 1700 CCA Range of 12V / 24V Batteries
- ✓ Battery Internal Resistance
- ✓ Battery Condition GOOD / OK / PAY ATTENTION / REPLACE
- ✓ Internal Unit Conversion CCA / IEC / EN / DIN
- ✓ Engine Activation Load Test, Maximum Load Test
- ✓ Charging System Test, Loose Lead Detection
- ✓ CAT III 600V

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## Battery Capacity (Impedance) Tester Upto 500Ah



- ✓ Upto 500 Ah & 40V DC
- ✓ 40mΩ to 40Ω Internal Resistance
- ✓ Online Testing of Internal Impedence / Resistance
- ✓ Rates Condition PASS / WARNING / FAIL
- ✓ PC Communication & Software
- ✓ Comparator Function (99 Sets)
- ✓ Open Circuit Voltage
- ✓ Test Most Types of Batteries
- ✓ Datalogging Memory Function

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## Battery Capacity (Impedence) Tester with DC Adaptor Upto 1200Ah



- ✓ Upto 1200Ah & 60V DC
- ✓ 4mΩ to 400Ω Internal Resistance
- ✓ Upto 600A DC Current
- ✓ Rates Conditions as PASS / WARNING / FAIL
- ✓ Load Test Analysis (Charge / Discharge)
- ✓ Built - In Comparator Function
- ✓ Auto Datalogging Micro SD Card
- ✓ USB Interface & Software
- ✓ Memory & Read Function
- ✓ Online Testing without Shutting Down Battery

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## Multifunction Automotive Meter

CE



- ✓ 3 in 1 Automotive Auto Ranging DMM, Power Probe & Logic Probe
- ✓ Voltage 600V DC/AC & Resistance Upto 20MΩ
- ✓ Pen Type Design
- ✓ Flashlight
- ✓ Auto Range
- ✓ Low Battery Warning
- ✓ Data Hold
- ✓ Hand Free Test Leads for Excellent Convenience
- ✓ Auto Power OFF

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## Digital Automotive Multimeter

CE



- ✓ Terminal Shutter Interlock Mechanism
- ✓ 2000 Counts with Large LCD Display
- ✓ 1000V DC / 700V AC,
- ✓ 20A AC / DC
- ✓ Heavy Duty Rubber Holster
- ✓ Data Hold, Backlight, Auto Power Off
- ✓ Measurement of Ignition Frequency, Ms-Pulse Width, RPM & DWELL
- ✓ Continuity Buzzer, Duty Cycle, Diode Test
- ✓ Transistor Test (hFE)

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## Air Flow Anemometer

CE



- ✓ Air Flow : 1 ~ 25m/s
- ✓ Temperature : 0 ~ 50°C / 32 ~ 122°F
- ✓ m / Sec, Ft / min, Knots, Km / h, MPH, CFM
- ✓ MAX / MIN / HOLD
- ✓ Backlight
- ✓ 9V Battery (installed)
- ✓ Auto Power Off

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## Digital Sound Level Meter

CE



- ✓ Range : 35dB ~ 130dB (31.5Hz ~ 8KHz)
- ✓ MAX
- ✓ MIN
- ✓ HOLD
- ✓ Auto Power Off

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## Digital LUX Meter

CE



- ✓ Range : 0 ~ 200,000 lux / 0 ~ 20,000 fc
- ✓ Selection of lux / fc
- ✓ Max / Min
- ✓ Data Hold
- ✓ Backlight
- ✓ 9V Battery (installed)
- ✓ Auto Power Off

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## Digital LUX Meter with Flexible Sensor



- ✓ 0.1 ~ 200,000 lux / 0.0 ~ 20,000 fc
- ✓ Selection of lux / fc
- ✓ MAX
- ✓ MIN
- ✓ Backlight
- ✓ Data Hold
- ✓ Auto Power Off with Disable Feature
- ✓ Flexible Sensor for convenience of Testing

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## Industrial Infrared Thermometers

CE



- ✓ Temperature : -50°C ~ 600°C / -50°F ~ 1112°F
- ✓ °C / °F Selection
- ✓ Laser Switch
- ✓ Low Battery Indication
- ✓ Backlight Display
- ✓ MAX / MIN / DIF / AVG Function
- ✓ Data Storage
- ✓ High / Low Temperature Alarm Setting Function
- ✓ Auto Power Off

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