



## Products for Renewable Energy

- ✓ Digital Earth Resistance Tester
- ✓ Multifunction Meters
- ✓ Powerguard
- ✓ Digital Panel Meters
- ✓ Digital Multimeters
- ✓ Digital Clampmeters
- ✓ Digital Insulation Testers
- ✓ Testing & Measuring Instruments
- ✓ Automotive & Battery Capacity Meters
- ✓ Environmental Testing Instruments
- ✓ Solar Analyzers
- ✓ Infrared Thermometer

**+60** YEARS  
ONE MISSION



Reliable



Long-Lasting



Affordable

## Digital Earth Resistance Tester



- ✓ 3½ Digit / 1999 Counts LCD
- ✓ Re-Chargeable Batteries
- ✓ Designed to Reject High Levels of Noise & Interference
- ✓ Range Selection & Single Person Operation
- ✓ Low Battery Indication
- ✓ IEC 1010 CAT III 200V
- ✓ Designed to Generally Conform to IS 10656-1983
- ✓ Capable of Measuring Earth Voltage (0 - 10V AC)

**MECO DET 909 is Designed with Technical Know from FUSO Electric Company of Japan.**

## 3 Phase Multifunction Power & Energy Meter - TRMS



- ✓ TRMS Measurement
- ✓ 4 Rows 4 Digit Super Bright LED Display
- ✓ 3P2E3W / 3P3E4W User Selectable
- ✓ Programmable for CTR, PTR, Instrument Address, Password & Energy Reset
- ✓ Energy Import - Export (4Q Operation)
- ✓ Energy Retention
- ✓ RS485 Port, 5KV Isolated with MODBUS RTU Protocol with Software
- ✓ 85-265V AC/DC or 19-90V AC/DC Auxilliary Supply

## 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

## POWERGUARD -TRMS

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- ✓ 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)

## 4 Digit Programmable Ammeter / Voltmeter - TRMS

CE



- ✓ 4 Digit 9999 Counts Super Bright Display
- ✓ TRMS Using Microcontroller
- ✓ User Programmable Display (CT Primary / PTR / Shunt Value]
- ✓ Auto Selection of Decimal Point
- ✓ Over Range Indication
- ✓ 85-265V AC/DC or 48V DC Auxilliary Supply
- ✓ Accuracy  $\pm 0.5\%$  of FSD
- ✓ Size (mm) : 72 x 72, 48 x 96 & 96 x 96

## LCD / LED Modules



- ✓ 3½ Digit 1999 Counts & 4½ Digit 19999 Counts Display
- ✓ Resolution is 0.0001 to 1 Count Depending on Ranges
- ✓ Over Range Indication "1" or "-1"
- ✓ Decimal Point : Field Selectable
- ✓ 5V DC ± 10% Auxilliary Supply for GM135 & LC135 (LED Modules)
- ✓ 9V DC ± 10% Auxilliary Supply for GM035, DH035, GM035-BL, GM045 & LC035 (LCD Modules)

## 3<sup>5</sup>/<sub>6</sub> Digit 6000 Counts TRMS Autoranging Digital Multimeter

CE



- ✓ 1000V DC & 750V AC
- ✓ 10A DC / AC
- ✓ Holster + Magnet
- ✓ Torch Light + Backlight
- ✓ Temperature (K Type Thermocouple)
- ✓ Frequency, Capacitance & Duty Cycle
- ✓ NCV (LED, Buzzer & EF Strength)
- ✓ Diode Test, Data Hold
- ✓ Audible Continuity
- ✓ Auto Power Off



## 3<sup>5</sup>/<sub>6</sub> Digit 6000 Counts TRMS Autoranging Digital Multimeter

CE



- ✓ 1000V DC & 750V AC
- ✓ 20A DC / AC
- ✓ Holster with Stand
- ✓ Temperature (K Type Thermocouple)
- ✓ Frequency, Capacitance, Resistance & Duty Cycle
- ✓ Diode Test, Audible Continuity, Data Hold
- ✓ Backlight, Auto Power Off
- ✓ CAT IV 600V, CAT III 1000V

## 3 $\frac{3}{4}$ Digit 4000 Counts 600A AC - TRMS Digital Clampmeter



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

## 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

## 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

## 2000V & 2000A DC / AC TRMS Digital Clampmeter



- ✓ 2000V & 2000A AC / DC
- ✓ Auto / Manual Ranging
- ✓ Resistance, Capacitance
- ✓ Backlight + Torch Light
- ✓ Inrush Current
- ✓ Diode Test, Audible Continuity
- ✓ Data Hold
- ✓ Auto Power Off

## 2.5kV - 20G Ohms Digital Insulation Tester

CE



- ✓ 500V - 1000V - 2.5kV / 0.1M Ohm To 20G Ohm
- ✓ Single Person Push Button Operation
- ✓ 600V AC Voltage Measurement
- ✓ Auto Range (Insulation Test)
- ✓ Red LED Indicator for High Voltage
- ✓ Low Battery Indication / Low Resistance Warning
- ✓ IS 10656-1983 and EMC IEC 61326 Class B
- ✓ CAT III 600V, IEC / EN 61010-1 & 61010-31

## 5kV - 200G Ohms Digital Insulation Tester

CE



- ✓ 1000V - 2.5kV - 5kV / 0.1M Ohm To 200G Ohm
- ✓ 600V AC Voltage Measurement
- ✓ Red LED Indicator for High Voltage
- ✓ Phase Sequence, Phase Status Indication and Beep Facility
- ✓ Protection to Prevent the Harm of Reverse Voltage
- ✓ Over Range Indication
- ✓ Battery Operated with AC Adaptor
- ✓ IS 10656-1983 and EMC IEC 61326 Class B
- ✓ CAT III 600V, IEC / EN 61010-1 & 61010-31

## Clamp - On Earth / Ground Resistance and Leakage Current Tester

CE



- ✓ Non Contact Ground Resistance Measurement
- ✓ 4 Digit 9999 Counts LCD Backlight Display
- ✓ No Auxilliary Electrodes Needed
- ✓ Ground Resistance Measurement 0.01Ω ~ 1000Ω
- ✓ Leakage Current (0.5mA ~ 30.00A) (Model 4680BLC)
- ✓ Data Storage Memory
- ✓ Data Hold, Noise Signal, Auto Power Off
- ✓ Suitable for Earthing Strip Upto 65mm
- ✓ Suitable for Round Conductor Upto 25mm Dia.



## 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.

## 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

## 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)

## 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

## Battery Capacity (Impedance) Tester Upto 500Ah



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

## 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

## 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)

## Solar Power Meter (Irradiance Meter)

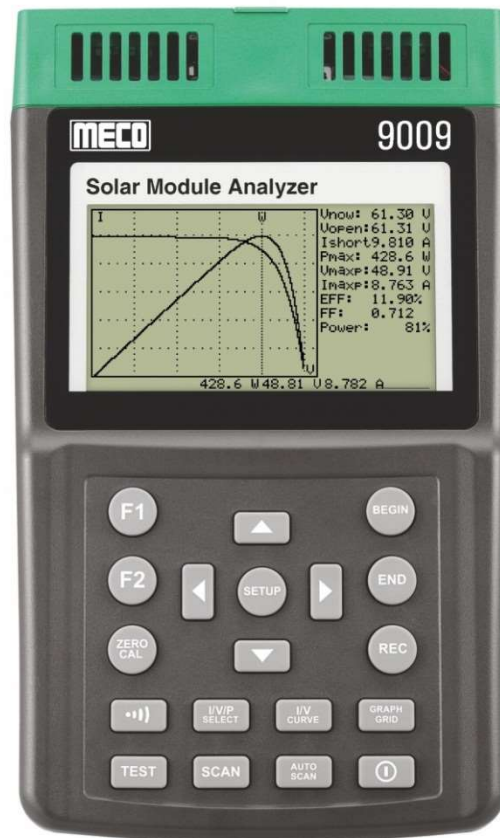
CE



- ✓ Solar Irradiance Measurement 0-2000 W/m<sup>2</sup> (0 - 634 BTU / ft<sup>2</sup>.h)
- ✓ Orientation & Tilt Angle 0 To 90°
- ✓ Backlight with 4 Digit Triple Display
- ✓ Instantaneous, Average & Min / Max Values
- ✓ 20 Points Memory
- ✓ Socket for Tripod Mounting
- ✓ Low Battery & Over Range Indication
- ✓ Data Hold & Zero Adjustment
- ✓ Auto Power off with Disable Function



## Solar Module Analyzer



- ✓ I-V Curve Test for Solar Panel / Module / Cell
- ✓ 60V, 12A (500W Capacity)
- ✓ Measures V<sub>now</sub>, V<sub>oc</sub>, I<sub>sc</sub>, P<sub>max</sub>, V<sub>maxP</sub>, I<sub>maxP</sub>, EFF & FF
- ✓ PC (USB) Connectivity with Software
- ✓ Memory and Read Function
- ✓ Best Resolution : 1mV, 1mA
- ✓ Large LCD with Backlight
- ✓ Data Logging upto 100 Records
- ✓ AC Adaptor and Rechargeable Lithium Battery

## Laser Distance Meter



- ✓ 0.05 To 100m
- ✓ Meter / Inches / Feet
- ✓ Addition / Subtraction
- ✓ Area / Volume Calculation
- ✓ Triangular Area Measurement
- ✓ Pythagorean
- ✓ Data Storage
- ✓ MIN / MAX / Continuous Measurement
- ✓ Battery Indicator

## Humidity & Temperature Meter

CE



- ✓ Humidity : 0 ~ 100% RH
- ✓ Temperature : - 20 ~ 80°C / - 4 ~ 176°F
- ✓ °C / °F / RH Selection
- ✓ MAX / MIN
- ✓ 9V Battery (installed)
- ✓ Auto Power Off

## 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

## Digital Sound Level Meter

CE



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

## 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

## 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

## 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



## AC Clamp-On TRMS Power & Harmonics Tester

CE



- ✓ V, A, W, PF, Phase Angle, THD upto 50th Order
- ✓ Harmonics of AC Current Upto 99th Order
- ✓ Programmable CT Ratio (1 to 250)
- ✓ Resistance and Continuity with Beeper
- ✓ HP, VA, KVA, VAR, KVAR, WH, KWH
- ✓ Dual Display (W+PF, VA+KVAR etc.)
- ✓ Max, Min and Data Hold Function
- ✓ Jaw Opening Cable Upto 55mm Dia. / Bus Bar upto 64 x 24mm

## Clamp-On TRMS Power Meter (1000A, 600kW)

CE



- ✓ 1 $\phi$  and 3 $\phi$  (3 $\phi$ 3W / 3 $\phi$ 4W) Power Analyzer
- ✓ 4 Digit 9999 Counts LCD
- ✓ TRUE Power, AC Inrush Current, Phase Angle
- ✓ Dual Display, Autoranging
- ✓ HP, KW, KVA, KVAR, HZ, PF, AC A, AC / DC V
- ✓ Resistance, Capacitance, Temperature
- ✓ Diode Test, Data Hold, Auto Power Off
- ✓ Jaw Opening Cable / Conductor Upto 43mm / Bus Bar Upto 65 x 16mm

## Contact Us

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