

**BRAND INDIA ENGINEERING
E-CATALOGUE**

Date: 03-04-2025

Meco Instruments Private Limited

**Plot No-EL 1, MIDC Electronic Zone, TTC
Indl. Area, Mahape, Navi Mumbai
NAVI
PIN - 400 710**

**Mr.Kamal Goliya -
CEO
PHONE - +91 22
27673300
EMAIL -
mipltd@vsnl.com
WEB -
www.mecoinst.com**

We are an Indian ISO 9001 : 2008 certified company offering various reliable, long - lasting and affordable Instruments since over 5 decades (established in 1962). These Products are ideal for Power, Renewable Energy and Automotive Sectors. Many products has been designed by our R & D Department (Recognized by Department of Scientific and Industrial Research, Ministry of Science and Technology, Govt. of India, New Delhi) which holds several design registration / patents.The Make in India spirit is very much ignited at MECO. MECO has a network of over 60 Authorised Dealers / Distributors who effectively channel the products in the entire Indian sub continent with good penetration. Our products are exported to almost all the continents of the world through local agents and representatives. We seek strategic alliances with companies worldwide who can either effectively market our products in their local markets or with companies who wish to channel their products in India through our marketing network.

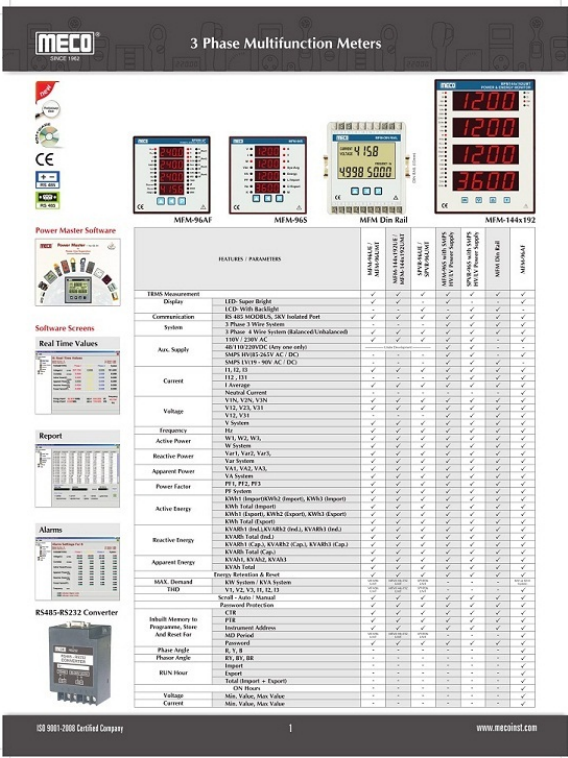
[Products Description](#)

3 Phase Multifunction Meters

BRAND INDIA ENGINEERING E-CATALOGUE

Technical Details
ITC HS Codes
Certification/ Standard
Issuing Agency
Date of Issue
Date of Expiry
End Use Sectors
Product Images

As per catalog.
90303390
CE



MECO 3 Phase Multifunction Meters

MEM-954T MEM-965 MEM-144x152 MEM-144x152

FEATURES / PARAMETERS	MEM-954T	MEM-965	MEM-144x152	MEM-144x152
Basic Measurement				
Display	LED Super Bright	LED With Backlight	LED	LED
Communication	RS-485 MODBUS, RS232C	RS232C	RS232C	RS232C
System	3 Phase 3 Wire System	3 Phase 3 Wire System	3 Phase 3 Wire System	3 Phase 3 Wire System
Max. Supply	3 Phase 4 Wire System (Balanced & Unbalanced)	3 Phase 4 Wire System (Balanced & Unbalanced)	3 Phase 4 Wire System (Balanced & Unbalanced)	3 Phase 4 Wire System (Balanced & Unbalanced)
Current	100V, 230V AC	100V, 230V AC	100V, 230V AC	100V, 230V AC
Voltage	0-600V AC (1-Phase)	0-600V AC (1-Phase)	0-600V AC (1-Phase)	0-600V AC (1-Phase)
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Active Power	W, kW, Wh, kWh	W, kW, Wh, kWh	W, kW, Wh, kWh	W, kW, Wh, kWh
Reactive Power	Var, kVar, kVArh	Var, kVar, kVArh	Var, kVar, kVArh	Var, kVar, kVArh
Apparent Power	VA, kVA, kVAh	VA, kVA, kVAh	VA, kVA, kVAh	VA, kVA, kVAh
Power Factor	PF1, PF2, PF3	PF1, PF2, PF3	PF1, PF2, PF3	PF1, PF2, PF3
Active Energy	kWh (Import/Export), kWh (Import)	kWh (Import/Export), kWh (Import)	kWh (Import/Export), kWh (Import)	kWh (Import/Export), kWh (Import)
Reactive Energy	kVArh (Total/Imp), kVArh (Total/Exp), kVArh (Total)	kVArh (Total/Imp), kVArh (Total/Exp), kVArh (Total)	kVArh (Total/Imp), kVArh (Total/Exp), kVArh (Total)	kVArh (Total/Imp), kVArh (Total/Exp), kVArh (Total)
Apparent Energy	kVAh (Total/Imp), kVAh (Total/Exp), kVAh (Total)	kVAh (Total/Imp), kVAh (Total/Exp), kVAh (Total)	kVAh (Total/Imp), kVAh (Total/Exp), kVAh (Total)	kVAh (Total/Imp), kVAh (Total/Exp), kVAh (Total)
Power Demand	Max. Demand	Max. Demand	Max. Demand	Max. Demand
THD	THD	THD	THD	THD
Power Protection	Over Current Protection	Over Current Protection	Over Current Protection	Over Current Protection
Power Angle	Power Angle	Power Angle	Power Angle	Power Angle
Phase Angle	Phase Angle	Phase Angle	Phase Angle	Phase Angle
RUN Hour	RUN Hour	RUN Hour	RUN Hour	RUN Hour
Voltage	Min. Value, Max. Value	Min. Value, Max. Value	Min. Value, Max. Value	Min. Value, Max. Value
Current	Min. Value, Max. Value	Min. Value, Max. Value	Min. Value, Max. Value	Min. Value, Max. Value

Characteristics, Studying
ritical parameters

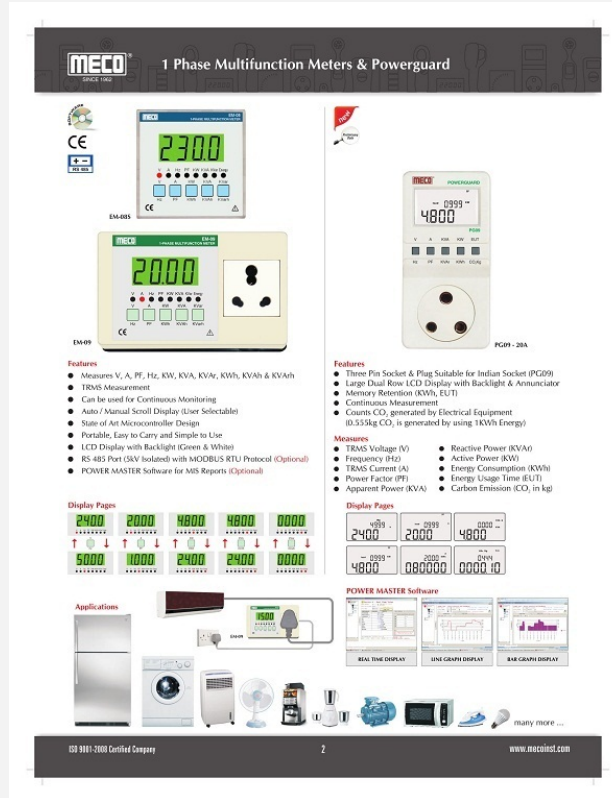
1 Phase Multifunction Meters & Powerguard

Technical Details
ITC HS Codes
Certification/ Standard

As per catalog.
90303390
CE

BRAND INDIA ENGINEERING E-CATALOGUE

Issuing Agency
Date of Issue
Date of Expiry
End Use Sectors
Product Images



Characteristics, Studying
rical parameters

Power Line Transducers & Analog Panel Meters

Technical Details
ITC HS Codes
Certification/ Standard
Issuing Agency
Date of Issue
Date of Expiry

As per Catalog.
Power Line Transducers 85049090 & Analog Panel Meters 90303310
CE


01-08-2017
31-12-2020

**BRAND INDIA ENGINEERING
E-CATALOGUE**

MECO since 1984

Power Line Transducers

CE



Types

- AC Current (Average / TRMS)
- AC Voltage (Average / TRMS)
- Frequency
- Active Power (TRMS) (1P & 3P - Balanced or Unbalanced System)
- Reactive Power (TRMS) (1P & 3P - Balanced or Unbalanced System)
- Power Factor (Zero Crossing / TRMS) (1P & 3P - Balanced or Unbalanced System)
- DC Isolation for Voltage & Current
- Tap Position / O/CTC

Features

- Low Ripple in Output Signal
- Choice of Multiple Asymmetrical Outputs
- Wide Choice of Suspended Ranges
- Open and Short Circuit Protection for Outputs
- Dual Output (Non Isolated)
- Self Powered, AC, DC, SMPS Auxiliary Supply
- Bi-Directional Outputs
- Fast Response Time
- Bi-Directional Inputs for Import / Export

Applications

- DIN Rail type Rack Panel Mounting
- Terminal Protection Strips
- Power Factor Measurement
- Reliable, Rugged & Stable Element Circuit using High Stability Components

Analog Panel Meters

90° Deflection - AC & DC DIN Panel Ammeter & Volt Meter
Size : 72 x 72, 96 x 96 Sq. mm.

240° Deflection - AC & DC DIN Panel Ammeter & Volt Meter
Size : 72 x 72, 96 x 96, 110 x 110, 144 x 144 Sq. mm.

90° & 240° Deflection - Electronic Analog W / VAR / PF / Hz Meters
Size : 72 x 72, 96 x 96, 144 x 144 Sq. mm.

AC & DC Educational Desk Stand Ammeter & Volt Meter
Model : MR10EDM, MR100EDM

ISO 9001-2000 Certified Company 3 www.mecotst.com

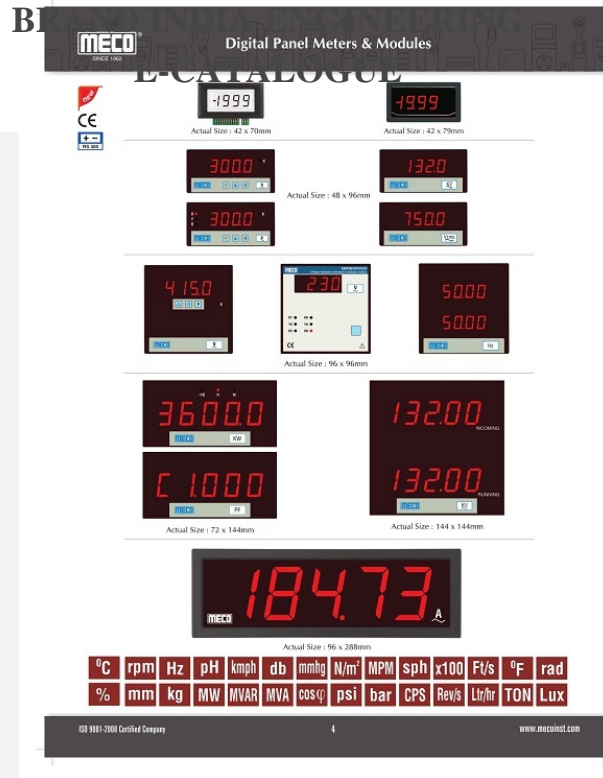
End Use Sectors

Product Images

Petroleum, SCADA, R&D

Digital Panel Meters & Modules

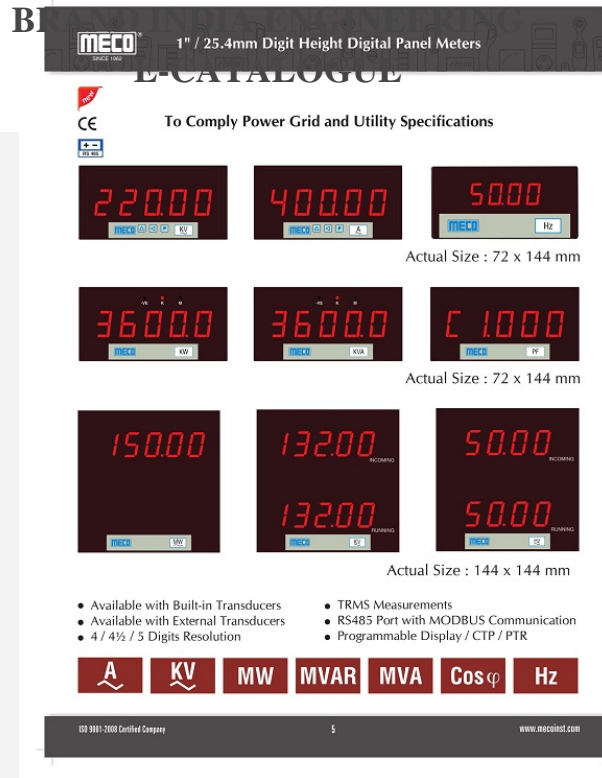
Technical Details	As per catalog.
ITC HS Codes	90303310
Certification/ Standard	CE
Issuing Agency	---
Date of Issue	01-01-2016
Date of Expiry	31-12-2020
End Use Sectors	Automation, Automobile, Petrochemical, Chemical, Oil/Gas/Petroleum, SCADA, R&D Organizations, Power Utilities and so on.



Product Images

1 inch 25.4 mm Digit Height Digital Panel Meters

Technical Details	As per catalog.
ITC HS Codes	90303310
Certification/ Standard	CE
Issuing Agency	---
Date of Issue	01-01-2016
Date of Expiry	31-12-2020
End Use Sectors	Automation, Automobile, Petrochemical, Chemical, Oil/Gas/Petroleum, SCADA, R&D Organizations, Power Utilities and so on.



Product Images

Digital Clampmeters AC TRMS

Technical Details	As per catalog.
ITC HS Codes	90303390
Certification/ Standard	CE
Issuing Agency	---
Date of Issue	01-01-2016
Date of Expiry	31-12-2020
End Use Sectors	Automation, Automobile, Petrochemical, Chemical, Oil/Gas/Petroleum, SCADA, R&D Organizations, Power Utilities and so on.

MECO Digital Clampmeters AC / TRMS
PRODUCT CATALOGUE

Product Images



Features	27F-AUTO	2502F-AUTO	72F-AUTO	2520FHz-AUTO	1000-TRMS
Model	27F-AUTO	2502F-AUTO	72F-AUTO	2520FHz-AUTO	1000-TRMS
Digit	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
Count	2000	2000	4000	4000	6000
Auto Ranging	✓	✓	✓	✓	✓
TRMS	NA	NA	NA	NA	✓
A AC	400A	1000A	400A	1000A	1000A
V AC	600V	750V	600V	750V	750V
V DC	600V	1000V	600V	1000V	1000V
Resistance	✓	✓	✓	✓	✓
Continuity	✓	✓	✓	✓	✓
Diode	✓	✓	✓	✓	✓
Duty Cycle	NA	NA	NA	✓	✓
Capacitance	NA	NA	✓	✓	✓
Frequency	NA	NA	✓	✓	✓
Temperature	✓	✓	✓	✓	✓
Auto Power Off	✓	✓	✓	✓	✓
Data Hold	✓	✓	✓	✓	✓
Max.	✓	✓	NA	NA	NA
Non Contact Voltage	✓	✓	✓	✓	NA
Jaw Opening	25mm	52mm	25mm	52mm	30mm
Backlight	NA	NA	NA	NA	✓

ISO 9001:2000 Certified Company

6


www.mecoinst.com

Digital Clampmeters DC TRMS

Technical Details	As per catalog.
ITC HS Codes	90303390
Certification/ Standard	CE
Issuing Agency	---
Date of Issue	01-01-2016
Date of Expiry	31-12-2020
End Use Sectors	Automation, Automobile, Petrochemical, Chemical, Oil/Gas/Petroleum, SCADA, R&D Organizations, Power Utilities and so on.

MECO Digital Clampmeters DC / AC TRMS
MECATALOGUE

CE



Features	36-AUTO	3690AUTO	1000-TRMS	3600 SUPER
Model	36-AUTO	3690AUTO	1000-TRMS	3600 SUPER
Digit	3 1/2	3 1/2	3 1/2	3 1/2
Count	4000	4000	6000	6000
Auto Ranging	✓	✓	✓	✓
TRMS	NA	NA	✓	✓
A AC	600A	600A	1200A	1000A
A DC	600A	600A	1200A	1200A
V AC	600V	600V	750V	600V
V DC	600V	600V	1000V	600V
Resistance	✓	✓	✓	✓
Continuity	✓	✓	✓	✓
Diode	✓	✓	✓	✓
Duty Cycle	✓	✓	✓	✓
Capacitance	✓	NA	✓	✓
Frequency	✓	✓	✓	✓
Temperature	✓	NA	✓	NA
Auto Power Off	✓	✓	✓	✓
Data Hold	✓	✓	✓	✓
Non Contact Voltage	✓	NA	NA	NA
Jaw Opening	25mm	30mm	30mm	55mm
Backlight	NA	NA	✓	NA
Bargraph	NA	NA	NA	✓


ISO 9001:2000 Certified Company 7 www.mecoinst.com

Product Images

Digital Mutimeters

Technical Details	As per catalog.
ITC HS Codes	90303100
Certification/ Standard	CE
Issuing Agency	---
Date of Issue	01-01-2016
Date of Expiry	31-12-2020
End Use Sectors	Automation, Automobile, Petrochemical, Chemical, Oil/Gas/Petroleum, SCADA, R&D Organizations, Power Utilities and so on.

MECO Digital Multimeters
PRODUCT CATALOGUE




Accessories

USB Cable
Model: 2802
Model: 2718

Power Terminal
Model: 2802
Model: 2718
Model: 2718

814-USB Software Window



Features

Model	63	9A09	18-TRMS	81-USB	1518+TRMS	1718+TRMS	666TRMS	1018+	1088+TRMS
Count	2000	2000	2000	4000	6000	6000	6600	4000	6000
Auto Ranging	NA	✓	✓	✓	✓	✓	✓	✓	✓
TRMS	NA	NA	✓	NA	✓	✓	✓	NA	✓
A AC	NA	10A	10A	10A	20A	20A	20A	10A	10A
A DC	10A	10A	10A	10A	20A	20A	20A	10A	10A
V AC	750V	600V	750V	750V	750V	750V	750V	750V	750V
V DC	1000V	600V	1000V	1000V	1000V	1000V	1000V	1000V	1000V
Resistance / Continuity / Diode	✓	✓	✓	✓	✓	✓	✓	✓	✓
Duty Cycle (%)	NA	NA	NA	✓	✓	✓	✓	✓	✓
Capacitance	NA	NA	NA	✓	✓	✓	✓	✓	✓
Frequency	NA	NA	NA	✓	✓	✓	✓	✓	✓
Temperature	NA	✓	✓	NA	NA	✓	✓	NA	✓
Auto Power Off	NA	✓	✓	✓	✓	✓	✓	✓	✓
BEI Test	✓	NA	NA	✓	NA	NA	NA	NA	NA
USB PC Interface	NA	NA	NA	✓	NA	NA	NA	NA	NA
Data Logging Software	NA	NA	NA	✓	NA	NA	NA	NA	NA
Back Light	✓	NA	NA	NA	✓	✓	✓	NA	✓

ISO 9001:2008 Certified Company 8 www.mecoinst.com

Product Images

1) Phase Sequence Indicators 2) 5kv - 200Gohm Digital Insulation Tester 3) Insulation Tester - Digital 4) Insulation Tester - Analog 5) LCR Meter

Technical Details	As per catalog.
ITC HS Codes	90303390
Certification/ Standard	CE
Issuing Agency	---
Date of Issue	01-01-2016
Date of Expiry	31-12-2020
End Use Sectors	Automation, Automobile, Petrochemical, Chemical, Oil/Gas/Petroleum, SCADA, R&D Organizations, Power Utilities and so on.

MECO Testing & Measuring Instruments
MECO CATALOGUE
Phase Sequence Indicator

PSI 2016

- 3 Phase Sequence Indication via LED & Buzzer
- Reverse Power Indication via LED & Buzzer
- Open Phase Indication via LED & Buzzer
- No Battery Required
- Rugged & Handy
- Easy & Safe to Use
- Coloured Test Probes with Heavy Duty Insulated Crocodile Clips for R, Y, B Phase Connections
- Phase Presence Indication from as low as 60V AC (PhAN)

5kV - 200GΩ Digital Insulation Tester
DIT954

Insulation Resistance Measurement Test Leads, Adapter & Phase Sequence Measurement Wire

Specification	Test voltage	Range
Insulation Resistance	100V / 250V / 500V	0.1MΩ to 200GΩ
AC Voltage Measurement	0-400V AC (50-60Hz)	-
Phase Sequence Test	100V-400V (Phase-Phase) 60Hz	-

Insulation Tester - Digital
DIT99 Series

Model	Range	Test Voltage DC
DIT 99A	0-20M Ohms	100V
DIT 99B	0-200M Ohms	250V
DIT 99C	0-200M Ohms	500V
DIT 99D	0-200M Ohms	1000V
DIT 99E	0-200M Ohms	1000V

Insulation Tester - Analog
MC-900 Series/MC-900BA Series

Model	Range	Test Voltage DC
MC-901/MC-901BA	0-20M Ohms	100V
MC-903/MC-903BA	0-100M Ohms	100V
MC-904/MC-904BA	0-500M Ohms	100V
MC-905/MC-905BA	0-1000M Ohms	100V
MC-906/MC-906BA	0-2000M Ohms	1000V
MC-907/MC-907BA	0-500M Ohms	1000V
MC-908/MC-908BA	0-2000M Ohms	1000V

LCR Meter
LCR999A

Measurement Parameter	Primary Parameters: L, C, R, E, Z	Secondary Parameters: D, Q, F, T, X
Equivalent Mode	Series, Parallel	
Auto ICR Function	Normal/ Auto	
Ranging Mode	Auto	
Test Terminals	2-Terminal, 4-Terminal, 5-Terminal	
Measurement Speed	50 measures/second, 5-Terminals	
Correction	Short, Open	
Tolerance Mode	1%, 5%, 10%, 20%	
Input Protection Fuse	0.1A / 7.5V	
Reference	MetersLab Original Serial Print	

ISO 9001:2008 Certified Company | www.mecoinst.com

Product Images

1) Digital Earth Tester 2) Micro - Ohmmeter (7272) / Milli - Ohmmeter (7002)

Technical Details	As per catalog.
ITC HS Codes	90303390
Certification/ Standard	CE
Issuing Agency	---
Date of Issue	01-01-2016
Date of Expiry	31-12-2020
End Use Sectors	Automation, Automobile, Petrochemical, Chemical, Oil/Gas/Petroleum, SCADA, R&D Organizations, Power Utilities and so on.

MECO Testing & Measuring Instruments
MECO CATALOGUE

Digital Earth Tester

Specification	Range	Resolution
Earth Resistance	0 - 200Ω	0.1Ω
	0 - 2000Ω	1Ω
Earth Voltage	0 - 20VAC	0.01VAC

Micro - Ohmmeter (7272) / Milli - Ohmmeter (7002)

- Basic Accuracy 0.25%
- Max. Test Current: 18A (60mA) for 7272, 5A (120mA) for 7002
- Manual or Auto Range
- Four Terminal Kelvin Measurement
- 6 Ranges with 1kΩ Best Resolution
- Measurement of Resistive and Inductive Materials
- Setting for Hi, LO & PASS Readings
- Memory of 1000 Measurements Data
- Programmable H/L/O Alarms with memory of 20 Data
- Large LCD with Backlight & HOLD Function
- Low Power Consumption
- Battery Operated (Rechargeable Battery)
- Low Battery Indication
- LED Indication for Mutual Resistance Measurement
- Cable Length Measurement in feet & meters
- Line Interface Software for PC Communication via RS232C in USB Bridge Cable
- Built-in Battery Charging Circuit & Calendar Clock

Clamp - On Earth / Ground Resistance & Leakage Current Tester (suitable for 65x32mm Conductor)

- Non Contact Ground Resistance Measurement
- No Auxiliary Electrodes Needed
- Data Storing Memory
- Data HOLD, Noise Signal
- Ground Resistance Measurement 0.01Ω - 1000Ω
- Suitable for Earthing Strip of 65mm x 32mm
- Leakage Current (0.5mA - 30.00A) (Model 4680BLC)
- Auto Ranging
- Continuity Loop Test
- Auto Power Off

Transformer Turns Ratio Meter

- Measurements of 1Φ and 3Φ Transformer/VCT Turns Ratio
- V/T Ratio 0.1 - 10000, C/T Ratio 0.1 - 2000
- Graphical and Linear Illustration of Measurements and connectors with Large Backlighted Dot Matrix 240x128 LCD
- Displays Turns Ratio, Deviation, Secondary Output, Excitation Voltage and Current, Power Angle and Nonlinear Transformer V/ECT Values in one page for easy quality interpretation.
- Check for Line Test Points, Short Circuit, Open Circuit and Reverse Polarity before each measurement.
- Store 4096 Files of Transformer Nameplate Values (V/T/ECT /I/Φ/Ω), Test Frequency, Primary and Secondary Voltages or Ratio, RCT and Measuring Data.
- Ten Test Frequencies (50 - 400Hz)
- 9 Types of 1Φ Winding Connections pre-installed.
- Wireless Blue Tooth Communication with PC.
- Select Filter to Remove Field noise (Slow, Normal, Fast).
- Record with Date and Time Stamp
- Powered Lithium Battery (3.600mAh) with built-in Charging Circuit
- Line Programmable RCF (Reference Correction Factor, 0.99 - 1.01) to Correct Accuracy within 1% Error
- PC Application Software Included
- Friends File System for Easy On-site Data Retrieval and Nameplate Values Management

ISO 9001:2000 Certified Company 10 www.mecoinst.com

Product Images

1) Vehicle Battery System Meter 2) Digital Automotive Multimeter 3) Multifunction Automotive Meter 4) Battery Capacity (Impedance Tester) 5) Battery Meter

Technical Details	As per catalog.
ITC HS Codes	90303390
Certification/ Standard	CE
Issuing Agency	---
Date of Issue	01-01-2016
Date of Expiry	31-12-2020
End Use Sectors	Automation, Automobile, Petrochemical, Chemical, Oil/Gas/Petroleum, SCADA, R&D Organizations, Power Utilities and so on.

Product Images



1) Solar Module Analyzer 2) Solar System Analyzer 3) Solar Power Meter

Technical Details	As per catalog.
ITC HS Codes	1) Solar Module Analyzer and Solar System Analyzer 90303390 3) Solar Power Meter 90303390
Certification/ Standard	CE
Issuing Agency	---
Date of Issue	01-01-2016
Date of Expiry	31-12-2020
End Use Sectors	Automation, Automobile, Petrochemical, Chemical, Oil/Gas/Petroleum, SCADA, R&D Organizations, Power Utilities and so on.



Product Images

1) Infrared Thermometer 2) Laser Distance Meter 3) Thermal Imaging Camera 4) Digital Lux Meter 5) Humidity & Temperature Meter 6) Digital Sound Level Meter 7) Air Flow Anemometer

Technical Details

As per catalog.

ITC HS Codes

1) Infrared Thermometer 90251990 2) Laser Distance Meter 90278090 3) Thermal Imaging Camera 90278090 4) Digital Lux Meter 90278090 5) Humidity & Temperature Meter 90251990 6) Digital Sound Level Meter 90278090 7) Air Flow Anemometer 90303390

Certification/ Standard

CE

Issuing Agency

Date of Issue

01-01-2016

Date of Expiry

31-12-2020


End Use Sectors

Automation, Automobile, Petrochemical, Chemical, Oil/Gas/Petroleum, SCADA, R&D Organizations, Power Utilities and so on.

MECO Environment Testing Instruments

MECO CATALOGUE


Infrared Thermometer



IR1550P

Temperature Range	-50°C ~ 500°C
Accuracy	± 1.5°C
Distance Spot Ratio	12:1
Resolution	0.1°C
Responsibility	± 0.5°C at 1% N
Wavelength	8.00 ~ 14.00µm
Resolution	0.1°C/0.1°F
Special Response	Spot - 14pts
Special Features	
°C / °F Selection	✓
Laser Sight	✓
Auto Power Off	✓
Low Battery Indication	✓
Backlight Display	✓
MAX Function	✓
MIN Function	✓
LCD Size	28 x 28mm

Laser Distance Meter




LDM100

Features:


- Addition / Subtraction
- Area Measurement
- Volume Measurement
- Polygon Measurement
- Data Storage / Paging Out

Applications:

- Engineering Measurement
- Steel Engineering
- Shipyard Measurement
- Painting Industry
- Building Engineer
- Surveying Industry
- Decoration Industry




Thermal Imaging Camera



TIC300


Applications:

- Predictive Maintenance of Electrical Equipment
- Transport Vehicles and Car Maintenance
- Electrical & Electrical Manufacturing
- Maintenance of Ships
- Automotive Maintenance
- Detection in Industry




Environment Testing Instruments (Mini Series)

Digital LUX Meter (910P, 9100)




Function	Light Intensity, Illuminance, Lux, Foot-candle
Range	0 ~ 20000lx
Accuracy	± 1.0% (0.1 ~ 10000lx), ± 1.5% (10000 ~ 20000lx)
Resolution	0.1lx or 0.01lx
Response	Instant

Humidity & Temperature Meter (920P)




Function	Humidity, Temperature, Max/Min, Auto Power Off
Range	0% ~ 100%RH
Accuracy	± 1.0% (20% ~ 80% RH), ± 1.0% (80% ~ 100% RH)
Resolution	0.1%RH
Temperature Measurement	
Range	0°C ~ 50°C / 32°F ~ 122°F
Accuracy	± 0.5°C / ± 0.9°F (0°C ~ 30°C), ± 1.0°C / ± 1.8°F (30°C ~ 50°C)
Resolution	0.1°C / 0.1°F

Digital Sound Level Meter (970P)



Function	Sound Pressure, A-weighted, Auto Average
Range	20dB ~ 130dB (112dB ~ 130dB)
Accuracy	± 1.0dB (20dB ~ 110dB), ± 0.5dB (110dB ~ 130dB)
Resolution	0.1dB

Air Flow Anemometer (960P)



Function	Air Flow, Air Velocity, Air Volume, Air Density, Air Pressure, Air Temperature
Range	0 ~ 20m/s
Accuracy	± 1.0% (0 ~ 10m/s), ± 0.5% (10 ~ 20m/s)
Resolution	0.01m/s
Temperature Measuring	
Range	0 ~ 50°C / 32 ~ 122°F
Accuracy	± 0.5°C / ± 0.9°F
Resolution	0.1°C / 0.1°F

ISO 9001:2008 Certified Company
13
www.mecoinst.com

Power & Harmonics Analyzer

Technical Details	As per catalog.
ITC HS Codes	90303390
Certification/ Standard	CE
Issuing Agency	---
Date of Issue	01-01-2016
Date of Expiry	31-12-2020
End Use Sectors	Automation, Automobile, Petrochemical, Chemical, Oil/Gas/Petroleum, SCADA, R&D Organizations, Power Utilities and so on.

MECO Power & Harmonics Analyzer

MECO CATALOGUE

- Analysis of 3P4W, 3P3W, 1P2W, 1P1W Systems
- Display of 35 Parameters in one screen (3P4W)
- Programmable CT (1 to 600) and PFI (1 to 3000) Ratio
- Graphic Power Diagram
- True RMS value, Active Power, Apparent & Reactive Power (KVA, KVAh)
- Power Factor, Phase Angle (θ)
- Energy (Wh, kWh, kVAh, kWh, kWh) with Programmable Period
- Display of 30 Harmonics in one screen with Waveform with Peak value (1024 Samples/Period)
- Analysis of Total Harmonic Distortion (THD-F)
- Capture 20 Transient Events with Programmable Threshold (5, 10%, 50%, 1 & 0.1 Hz)
- Built in timer & Calendar for Data Logging
- Facility to receive Power Data & Harmonic Distortion via GPRS
- 32K Memory with Programmable Interval (2 to 3000 records, 17000 records for 3P4W System)
- Optical Isolated RS-232C – USB Interface
- Software for easy download of Recorded Data & Transient events
- Calculated Unbalanced Current through Neutral Line

CE **AC Clamp-On Power Harmonics & Leakage Tester**

- True RMS value (V and A)
- Leakage Current Measurement at 10A Resolution
- Harmonic Analysis (V and A) to the 99th Order
- Better Understanding of High Frequency Harmonic Analysis (up to 30 KHz)
- Non-interrupted Harmonic Analysis
- Analysis of Total Harmonic Distortion (%THD-F)
- Analysis of Crest Factor (C.F.)
- Fast Peak Function (33µs for 60Hz & 39µs for 50Hz)
- Programmable CT Ratio (1 to 250)
- W, kW, HP, VA, KVA, VAR, KVAR
- PF, Phase Angle (θ)
- Energy (Wh, kWh, KWh)
- Analysis of Standby Power Consumption
- Balanced 3 Phase Power Quality
- Balanced 3 Phase Sequence
- Max., Min. & Data Hold Function
- Action Power in HP

CE **3φ / 1φ Clamp-On TRMS Power Meter for AC / DC Power Measurement**

- 3φ 3 W, 3φ 3 W, 3φ Balanced, 1φ 2 W, 1φ 1 W
- AC + DC 20000 kW (3φ), 1200 kW (1φ)
- Dual display kW + PF
- KVA & KVAh, V-A, V-Ah, A + Hz
- Phase Angle Measurement (± 90°), Phase Sequence Indication (R,S,T)
- AC 600V, DC 600V, AC + DC 2000A
- Power Factor
- AC/DC Auto Detection
- TRMS Values
- Memory of 4 records
- Auto Range

CE **Clamp-On TRMS Power & Energy Meter with Automatic Computation of 1φ & 3φ (3P3W / 3P4W) Parameters**

Features

- TRMS Measurement
- kW, KVAR, KVA, HP & Energy Measurement
- PF & Phase Angle (θ) Measurement
- 4 Digi LCD, 9999 Count, Auto-ranging
- Data Hold, Auto Power Off
- Cable of Diameter upto 43mm / Busbar upto 65mm x 16mm

Applications

- Check Motors and Compressors
- Check for Energized Circuits & Loads
- Ideal for Electrical Energy Audit of Heating, Ventilation & Aircon Systems (HVAC)
- To Identify Low Voltage Control Signal
- To Identify Power Sources
- 1φ / 3φ 1p3w/3p4w Power Calculations
- Evaluate Electrical Contacts
- Verify the Stability of Voltage


ISO 9001:2000 Certified Company 11 www.mecoinst.com

Product Images

Calibrating Equipment

Technical Details	As per catalog.
ITC HS Codes	90303390
Certification/ Standard	CE
Issuing Agency	---
Date of Issue	01-01-2016
Date of Expiry	31-12-2020
End Use Sectors	Automation, Automobile, Petrochemical, Chemical, Oil/Gas/Petroleum, SCADA, R&D Organizations, Power Utilities and so on.


MECO Calibrating Equipment
MECO CATALOGUE



FEATURES / PARAMETERS		90A	90DQ	90P
DISPLAY	5 1/2 Digit Display	✓	✓	✓
SYSTEM (1 PHASE)	DC	✓	✓	-
	AC	✓	✓	✓
VOLTAGE (V)	AC/DC V : (0 - 2000V to 1000V)	✓	-	-
	AC/DC V : (0 - 1V to 1000V)	-	✓	-
CURRENT (A)	AC/DC A : (0 - 1000A to 20A)	✓	-	-
	AC/DC A : (0 - 1000A to 50A)	-	✓	-
	AC A : (0 - 100A to 100A)	-	-	✓
FREQUENCY (Hz)	SYNCH	-	✓	-
	50 Hz	✓	✓	-
	60 Hz	✓	✓	-
	400 Hz	✓	✓	-
	1 kHz	-	✓	-
	40 Hz to 70 Hz	-	-	✓
RESISTANCE	10Ω to 24k x 16Ω	✓	✓	-
PHASE ANGLE	0 to 359.99°	-	-	✓
POWER (1 PHASE)	Range: 0 to 1000W	-	-	✓
POWER FACTOR	Range: -1 to +1	-	-	✓
COMMUNICATION PORT	RS232	✓	✓	✓
KEY ADJUSTOR		-	✓	✓
WORKS CALIBRATION CERTIFICATE TRACEABLE TO NPL		✓	✓	✓
STANDARD CURRENT COIL (OPTIONAL)	Input 5A (Max.), Turn Ratio 100 / 1	-	✓	✓
	Input 10A (Max.), Turn Ratio 100 / 1	-	✓	✓
	Input 20A (Max.), Turn Ratio 50 / 1	✓	-	-

Applications:

- R & D Labs
- NABL Labs
- Educational Institutes
- Paper & Pulp Industries
- Automobile Industries
- Textile Industries
- Calibration Labs
- Chemical Process Industries
- Cement Plants
- Instrument Manufacturing Companies
- Medical Industries
- Petrochemical Industries



ISO 9001:2000 Certified Company 15 www.mecoinst.com

Product Images

Current Transformers

Technical Details	As per catalog.
ITC HS Codes	85049090
Certification/ Standard	CE
Issuing Agency	---
Date of Issue	01-01-2016
Date of Expiry	31-12-2020
End Use Sectors	Automation, Automobile, Petrochemical, Chemical, Oil/Gas/Petroleum, SCADA, R&D Organizations, Power Utilities and so on.

MECO Current Transformers (CT's)
CATALOGUE
PCB Mountable High Precision CT's (CC & CB Series)

Features

- Low Cost
- Low Profile for PCB Mounting
- High Accuracy
- Wide Linear Range
- Low Phase Shift Error
- Flame Retardant
- Non-Crystalline / Permalloy Core

Applications

- Electronic Energy Meter
- Power Transducer
- Precision Power Meter
- Power and Energy Monitoring Devices
- Over Current Protection Circuit of Motor and Other Electrical Appliances

Parameters

Series	Model	OCR Max. (Ohm)	Rated Primary (A)	Rated Secondary (mA)	Number of Turns (T)	Rated Secondary Burden	Accuracy (%)	Phase Shift Angle Max.	Linear Range
CC Series	WCT020CC	60	5	5	1000	10	0.1	≤21°(0.5%)	4
	WCT030CC	200	5	2.5	2000	30	0.1	≤21°(0.5%)	5
	WCT220CC	320	5	2	2500	30	0.1	≤21°(0.5%)	5
CB Series	WCT020CB	90	5	2.5	2000	30	0.1	≤147°(0.25%)	10
	WCT220CB	120	5	2	2500	100	0.1	≤107°(0.16%)	10

Split Core CT's (AAC to VAC) / (AAC to AAC)

- Rated Output: 0.333VAC
- Current Ratio: 3000:1
- Insulation Voltage: 600VAC
- Maximum Primary Voltage: 5000VAC (Insulated Conductor)
- Operating Temperature: -15°C to 60°C
- Frequency Range: 50 - 400Hz
- Leads: 1 Meter, Twisted Pair, 22AWG
- UL, ETL and CE Recognized
- RoHS Compliant
- Output and Leads can be customized

- Rated Current: 100A to 500A AC
- Rated Output: 1A or 5A AC at Rated Current (only one only)
- Accuracy: ± 1% at 2VA
- Insulation Voltage: 1000VAC
- Maximum Primary Voltage: 5000VAC (Insulated Conductor)
- Phase Angle: < 2 Degree at 10% of Rated Current
- Frequency Range: 50 - 400Hz
- Operating Temperature: -15°C to 60°C
- Leads: 1 Meter, Cable
- UL Recognized
- RoHS Compliant
- Output and Leads can be customized

Flexible Current Transformers (FCT Series)



Typical Voltage Output Volt/VA
 (Nominal Current)
 Volt/VA at 3000A(RMS), 50/60 Hz
 Rated Current Ratio
 Inner Diameter / Window Size

0.333 x 10 ³ x 10VA x Frequency
1000V AC
3000:1
1.25mm (5")

Clamp-On Current Transformer (CCT Series)



Model	Rated Input (A AC)	Rated Output	Accuracy
CCT08	0 - 20A	5A AC (Standard)	1.0
CCT50	0 - 100A	1A AC or 10V AC (Optional)	
	0 - 500A		
	0 - 1000A		

ISO 9001:2008 Certified Company | 16 | www.mecolst.com

Product Images

Sectors of Interest

Power, Renewable Energy, Solar and Automotive Sectors

Is OEM Supplier?

Yes

Is After Sales Service Provider?

Yes

Importance of niche products

1) Panel and Switchboard Instruments like Multifunction Meters ,Power Line Transducers ,Digital Panel Meters and Modules, Analog Panel & Switchboard Meters ,Educational Desk Stand Meters and so on 2) Testing and Measuring Instruments like Digital Multimeters , Clammeters, LCR Meters, Insulation Testers are highly in demand in various industrial sectors like Automobile, Automation, Educational Institutions, Chemical, Petrochemical, R&D Organizations, Oil/Gas/Petroleum and many more. These products are user friendly and reliable.

Potential market of niche products

Electrical / Electronic Measuring & Testing Instruments,Power,Renewable Energy and Automotive Sectors

Product Supply Record

National Projects - DMRC - Delhi Metro,Power Grid Corporation of India Limited , Indian Railways & Educational Institutes.

Patented Technologies

BRAND INDIA ENGINEERING E-CATALOGUE

Awards/Accolades

1) MECO has been awarded certificate of appreciation for highest export of Instruments by Engineering Export Promotion Council and Government of Maharashtra. 2) MECO has been awarded EFY award for the Year 2004, 2005 & 2006 in the category of Multimeters. EFY Awards aim to recognize the best of the best brands in fields of Technology, that are available to the consumers in India. 3) Electrical Measurement Entrepreneurship Award 1992 By Wisitex Foundation- Wisitex 1992. 4) Monodzukuri Jinzai Ambassador Award in January 2017 by Honorable Mr.Hiroshige Seko San Japanese Minister of Economy, Trade and Industry. This is the outcome for dedication for more than 40 years for the cause of Indo – Japanese Industry.