

BRAND INDIA ENGINEERING E-CATALOGUE

Date: 15-07-2025

Meco Instruments Private Limited

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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.

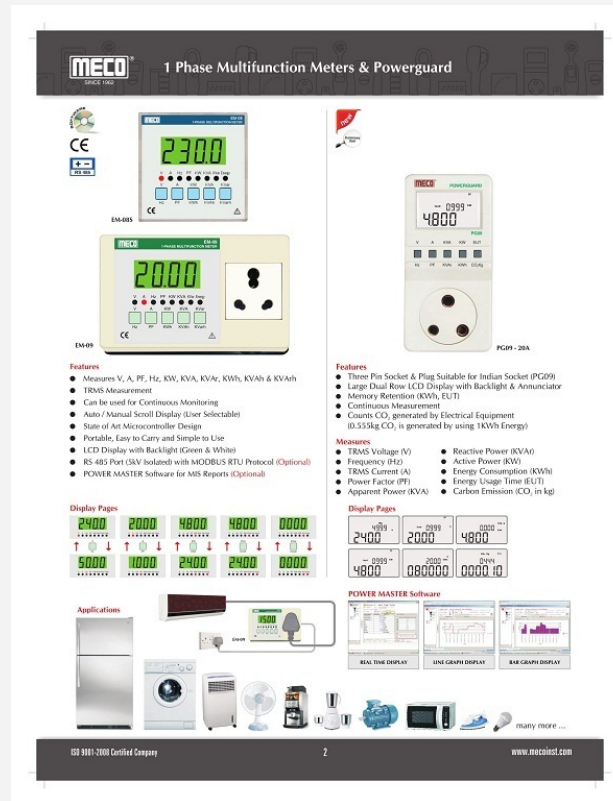
Products Description

3 Phase Multifunction Meters

CE

BRAND INDIA ENGINEERING E-CATALOGUE

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



Characteristics, Studying
critical 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

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Power Line Transducers

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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 / QTC

Features

- Low Ripple in Output Signal
- Choice of Multiple Asymmetrical Outputs
- Wide Choice of Suppressed 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 Mount - Isolating
- Terminal Protection Straps
- Temperature Measurement
- Reliable, Rugged & Stable Electronic Circuit using High Stability Components

CE


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 : MR60EDM, MR100EDM

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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

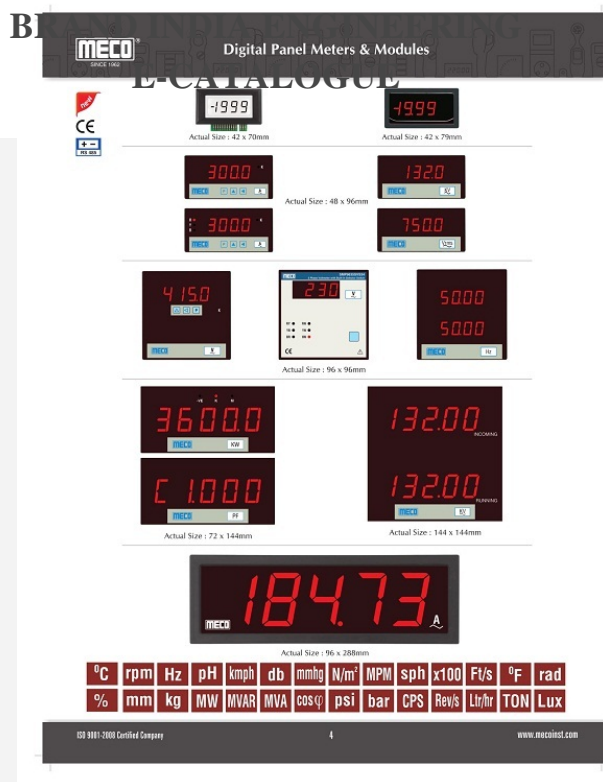
Date of Expiry

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 inch25.4 mm Digit Height Digital Panel Meters

Technical Details

As per catalog.

ITC HS Codes

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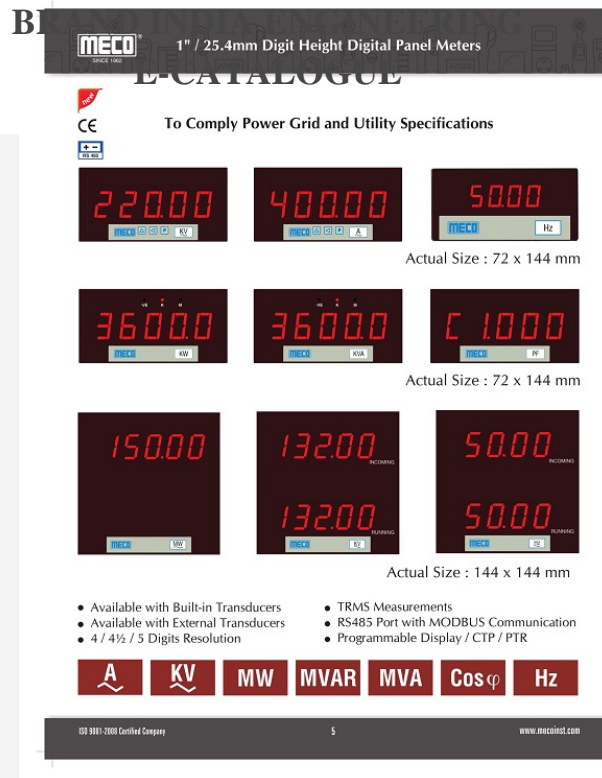
01-01-2016

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
E-CATALOGUE



Features

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	✓

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Digital Clampmeters DC TRMS

Technical Details	As per catalog.
ITC HS Codes	90303390
Certification/ Standard	CE
Issuing Agency	---
Date of Issue	01-01-2016
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MECO Digital Clampmeters DC / AC TRMS

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CE



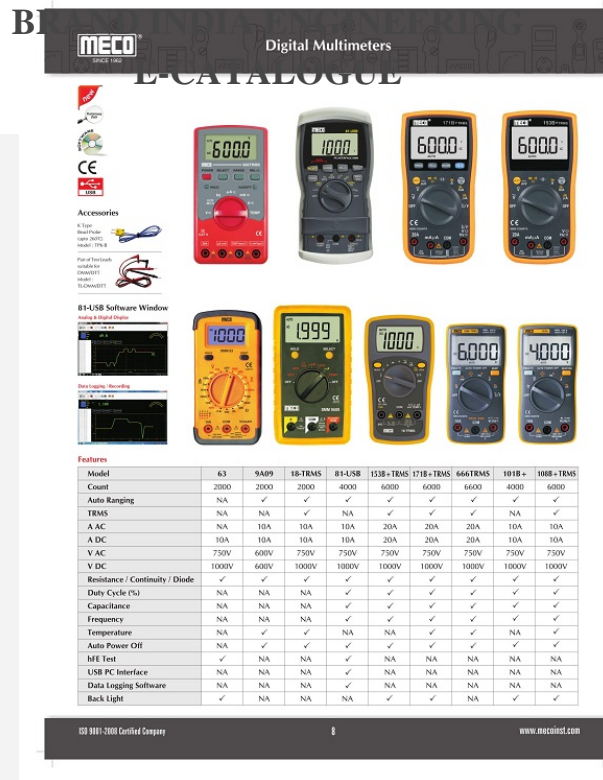
Features	36-AUTO	3690A AUTO	1000-TRMS	3600 SUPER
Model	36-AUTO	3690A AUTO	1000-TRMS	3600 SUPER
Digit	3 1/2	3 1/2	3 1/2	3 1/2
Count	4000	4000	6000	6000
Auto Ranging	✓	✓	✓	✓
TRMS	NA	NA	✓	✓
A AC	600A	600A	1200A	1000A
A DC	600A	600A	1200A	1200A
V AC	600V	600V	750V	600V
V DC	600V	600V	1000V	600V
Resistance	✓	✓	✓	✓
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	✓

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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.



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

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End Use Sectors

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MECO Testing & Measuring Instruments
CATALOGUE

Phase Sequence Indicator

- 3 Phase Sequence Indication via LED & Buzzer
- Reverse Phase 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 (Ph-N)

PSI 2016

5kV - 200GΩ Digital Insulation Tester

Insulation Tester - Digital

Insulation Tester - Analog

LCR Meter

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

Technical Details	As per catalog.
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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

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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

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End Use Sectors

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

Product Images

Power & Harmonics Analyzer

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

MECO **Power & Harmonics Analyzer**

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- Analysis of 3P4W, 3P3W, 1P2W, 1P1W Systems
- Display of 35 Parameters in one screen (SPRM)
- Programmable CT Ratio (500 to 3000 Ratio)
- Graphic Phase Diagram
- Real, Peak Value & Crest Factor
- True RMS value, Active Power, Apparent & Reactive Power (KVA, KVAR)
- Power Factor, Phase Angle (θ)
- A Energy (WtH, KVAh, KVAh, kWh) with Programmable Period
- Display of 30 Harmonics in one screen with Waveform with Peak value (500 Samples/Period)
- Analysis of Total Harmonic Distortion (THD-F)
- Capture 20 Transient Events with Programmable Threshold (5, 10%, 50%, 1 & 10V)
- Built-in timer & Calendar for Data Logging
- Facility to store Power Data & Harmonics on Micro-Screen
- 32K Memory with Programmable Interval (1 to 3000 seconds, 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 & 37µs for 50Hz)
- Programmable CT Ratio (1 to 250)
- W, KW, HP, VA, KVA, VAR, KVAR
- PF, Phase Angle (θ)
- Energy: kWh, Wh, KVAh
- Analysis of Standby Power Consumption
- Balanced 3 Phase Power Quality
- Balanced 3 Phase Sequence
- Max., Min. & Data Hold Function
- Active Power in HP

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

- 3φ 3W, 3φ 3W, 3φ Balanced, 1φ 2W, 1φ 1W
- AC + DC 2000 KVA (3φ), 1200 KVA (1φ)
- Dual display KW + PF
- KVA + KVAR, V + A, V + Hz, 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 Digit 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 (1p/1φ/3p/3φ) Power Calculations
- Evaluate Electrical Contacts
- Verify the Stability of Voltage


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Product Images

Calibrating Equipment

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


MECO Calibrating Equipment
E-CATALOGUE



FEATURES / PARAMETERS		90A	90DQ	90P
DISPLAY	5 1/2 Digit Display	✓	✓	✓
SYSTEM (1 PHASE)	DC	✓	✓	-
	AC	✓	✓	✓
VOLTAGE (V)	AC/DC V : (0 - 200mV to 1000V)	✓	-	-
	AC/DC V : (0 - 250mV to 1000V)	-	✓	-
	AC V : (0 - 1V to 1000V)	-	-	✓
CURRENT (A)	AC/DC A : (0 - 100mA to 20A)	✓	-	-
	AC/DC A : (0 - 100mA to 30A)	-	✓	-
	AC A : (0 - 10mA 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



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Current Transformers

Technical Details	As per catalog.
ITC HS Codes	85049090
Certification/ Standard	CE
Issuing Agency	---
Date of Issue	01-01-2016
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MECO **Current Transformers (CT's)**

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 Resistant
- Nano Crystalline / Permally Core

Application

- 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	WCT102CC	60	5	5	1000	10	0.1	≤25°/0.5°	4
	WCT102EC	200	5	2.5	2000	50	0.1	≤25°/0.5°	5
	WCT212EC	120	5	2	2500	50	0.1	≤25°/0.5°	5
CB Series	WCT202CB	90	5	2.5	2000	50	0.1	≤15°/0.25°	10
	WCT212CB	120	5	2	2500	100	0.1	≤10°/0.16°	10

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

Flexible Current Transformers (FCT Series)

Clamp-On Current Transformer (CCT Series)

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Product Images

Sectors of Interest

Is OEM Supplier?

Is After Sales Service Provider?

Importance of niche products

Potential market of niche products

Product Supply Record

Patented Technologies

Power, Renewable Energy, Solar and Automotive Sectors

Yes

Yes

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 , Clampmeters, 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.

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

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

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.