



# PRODUCT CATALOGUE AND TECHNICAL SPECIFICATIONS

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RAKESH MODI





# ONE PLATFORM, MANY POSSIBILITIES

ENERGY MONITORING SYSTEM | ENERGY MANAGEMENT SYSTEM |

SMART METERING SOLUTION | PANEL METERING |

## ABOUT TECHNO METERS

### COMPLETE SOLUTION FOR MEASURING ELECTRICITY



30+ YEARS IN THE ENERGY  
METERING BUSINESS



PRODUCT VERSATILITY  
TO 100+ & COUNTING



2600+ GROWING &  
HAPPY DEALERS



12 MILLION PRODUCTS  
IN THE FIELD



TAILOR-MADE  
SOLUTION



FOOTPRINTS IN 3+  
COUNTRIES



## WALL MOUNT ENERGY METERS

### TMCB 001M



kWh  
kW  
Volt  
Amps  
Hz  
PF

### SINGLE PHASE ELECTRONIC ENERGY METER WITH MULTI FUNCTIONAL LCD

- Ac Single Phase two wire
- Class: 1.0, 50 Hz, 240 V
- Current Rating: 2.5-10A, 5-20A, 5-30A, 10-40A, 10-60A
- LCD Display Parameters: kWh-Volt-kW-Amps-PF-HZ
- Applicable: IS 13779



### TMCB 002

### SINGLE PHASE STATIC ENERGY METER (WITH COUNTER DISPLAY)

- Ac Single Phase two wire
- Class: 1.0, 50 Hz, 240 V
- Current Rating: 2.5-10A, 5-20A, 5-30A, 10-40, 10-60A
- Counter Display Parameters: kWh
- Applicable: IS 13779



### TMCB 012

### SINGLE PHASE MULTIFUNCTION ELECTRONIC ENERGY METER (WITH LCD)

- Single Phase two wire
- Class: 1.0, 50Hz
- Voltage: 240V
- Current Rating: 2.5-10A, 5-20A, 5-30A, 10-40A, 10-60A
- Display type: LCD
- Parameters: Kwh, V, A, Anti-Tampering



### THREE PHASE MULTIFUNCTION ELECTRONIC ENERGY METER (WITH LCD)

- Three Phase four wire
- Class: 1.0, 50Hz
- Voltage: 3x240V AC
- Current Rating: 5-20A, 10-40A, 10-60A, 10-80A, 10-100A, /5A (CT operated)
- Display type: LCD
- Parameters: Kwh, V, A, Anti-Tampering Features: Current Reversal, Earth Load Standards, ect (As per Customer Request Also Available\*)
- Applicable: IS 13779

### TMCB 013



### TMCB 006

### THREE PHASE STATIC ENERGY METER (WITH COUNTER DISPLAY)

- Three Phase four wire
- Class: 1.0, 50 Hz
- Voltage: 3X240V AC
- Current Rating: 5-10A, 5-20A, 10-40A, 10-60A, 10-100A, /5A (CT operated)
- Display: Counter Display
- Parameters: kWh
- Applicable: IS 13779







## SINGLE PHASE & THREE PHASE CUSTOMISED ENERGY METERS

**TMCB 013 (CUSTOMISED)**



**TMCB 012 (CUSTOMISED)**

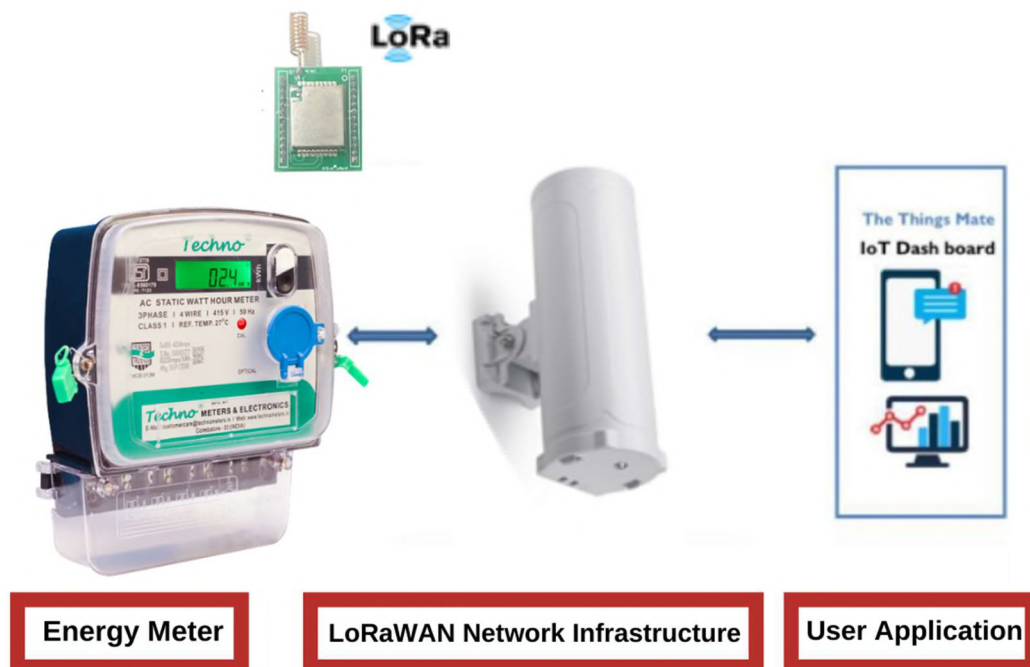


### OPTIONAL FEATURES:

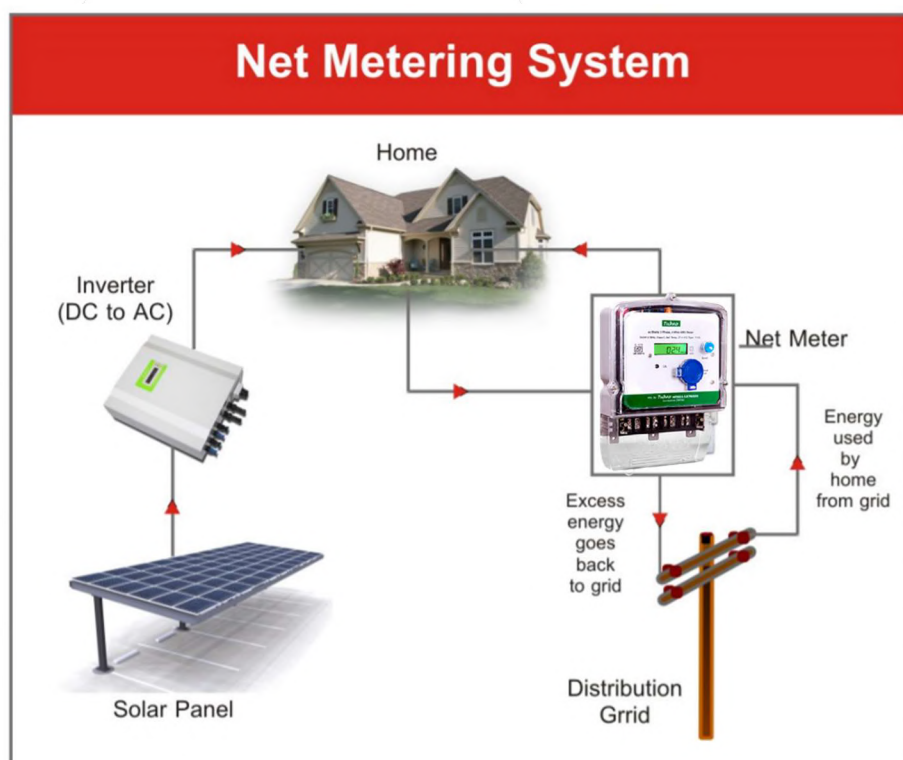
- WITH RS485 Communication Port (MODBUS)
- 232 PORT
- DUAL CHANNEL LoRAWAN Enable
- Dual Source
- Direct or CT-Operated
- ON/OFF Relay
- Import/Export/Bi-directional (Solar Net)



## LoRa SMART COMMUNICATION ENERGY METERING SYSTEM



## IMPORT/EXPORT SOLAR BI-DIRECTIONAL METER





## INDUSTRIAL PANEL METERS

### PARAMETERS OF DIFFERENT MODELS OF DIGITAL PANEL METERS



PARAMETERS ↓ / MODELS →	TMCB-021	TMCB-030	TMCB-029	TMCB-024
V (R-N)	✓	✓	✓	---
V (Y-N)	✓	✓	✓	---
V (B-N)	✓	✓	✓	---
V (R-Y)	✓	✓	✓	---
V (Y-B)	✓	✓	✓	---
V (B-R)	✓	✓	✓	---
I- R	✓	✓	✓	---
I-Y	✓	✓	✓	---
I-B	✓	✓	✓	---
Hz	✓	✓	✓	---
KWh	---	---	✓	Dual Optional
KVARh	---	---	✓	---
KVAh	---	---	✓	---
PF	---	---	✓	✓
System KVA	---	---	✓	✓
System KW	---	---	✓	✓
System KVAR	---	---	✓	---
Relay Output	---	✓	---	---
Communication port	RS485 (Optional)	---	RS485 (Optional)	RS485 (Optional)
Accuracy	1.0% (Optional 0.5%)			
Display	3 Line, 4 digit, 0.56"		1 Line, 6 digit, 0.4"	
RPM	✓	---	---	---
Run Hrs	✓	✓	✓	✓
ON Hrs	✓	✓	✓	✓
Warranty	1 year			





## RANGE OF DIGITAL VIF PANEL METERS

### TMCB 021



#### THREE PHASE PROGRAMMABLE DIGITAL VIF METER

- Display Parameters  
3 Phase Voltage | 3 Phase Current | Frequency | RPM | Run Hour
- Accuracy Class: 1.0
- CT Selection: Programmable through Keypad
- Dimension: 96mm (H) x 96mm (W) x 75mm (D)

#### SINGLE PHASE PROGRAMMABLE DIGITAL VIF METER

- Display Parameters  
Voltage - Current - Frequency
- Accuracy Class: 1.0 Single Phase two wire
- CT Selection: Programmable through Keypad
- Dimension: 96mm (H) x 96mm (W) x 75mm (D)

### TMCB 022



### TMCB 030



#### PROGRAMMABLE DIGITAL 3 PHASE VIF WITH RELAY

- Display Parameters & Fault /Settings  
Voltage - Current - Frequency - Run Hour
- Accuracy Class: 1.0
- Display: Three Line Seven Segment display, Size 0.56 Three Phase four wire
- Dimension: 96mm(H) x 96mm(W) x 75mm(D)

#### PROGRAMMABLE DIGITAL 1 PHASE VIF METER WITH PROTECTION RELAY

- Display Parameters & Fault /Settings  
Voltage - Current - Frequency - On Hour - Run Hour
- Accuracy Class: 1.0
- Display: Three Line Seven Segment display, Size 0.56 Three Phase four wire
- Dimension: 96mm(H) x 96mm(W) x 75mm(D)

### TMCB 031





## DIGITAL MULTIFUNCTIONAL/kWh PANEL METERS

### TMCB 024

### PROGRAMMABLE DIGITAL THREE PHASE ENERGY METER



- Mains kWh LED indication.
- Calibration LED indication.
- Current Resolution (Auto ranging) – 0.01A / 0.1A / 1A.
- Reverse LED indication.
- CT Ratio Programming (CTR values 5, 10, 20, 25, 30, 50, 60, 75, 100, 125, 150, 200, 250, 300, 400, 500, 600, 800, 1000, 1200).
- Bright Seven segment LED display for better readability.
- Auto scrolling & manual mode selectable.
- RS485 communication or Dual source optional\*

### THREE PHASE PROGRAMMABLE DIGITAL POWER ANALYZER

- Display Parameters : Voltage - Current - Frequency - PF - kW - kVA - kVAR
- Energy: kWh, KVAh, kVAh - Run Hour - On Hour
- Accuracy Class: 1.0/Class 0.5(Optional) Three Phase Four wire Reference
- CT Selection: Programmable through Keypad
- Dimension: 96mm(H) x 96mm(W) x 75mm(D)
- RS485 communication or Dual source optional\*

### TMCB 029



### TMCB 5300



### THREE PHASE KWH VIF GEN-DOUS PANEL METER

- True RMS Measurements
- Star(Wye)/Delta/1 Phase Programming
- PT Ratio/CT ratio Programmable
- Universal Auxiliary(80-300VAC/DC) Supply
- Universal Voltage Output(80-550VAC) and Current Secondary (0.6-6A)
- Clearance and creep age Distance meets UL61010
- Compact size and light Weight
- 6 digit mechanicals counter for better readability (kWh)
- 1 Row 4 Digit display readability
- Parameters (VLL, VLN, A, F) and ON Hour
- Auto scanning of Kilo, mega, giga, and decimal point

### SINGLE PHASE PROGRAMMABLE DIGITAL POWER ANALYZER

- True RMS Measurement.
- One Line 4 digits Display for above parameters.
- CT Ratio Programming (Range: 5/5 to 9000/5).
- Auto scrolling & manual mode selectable.
- Auto decimal shifting for current (from 0.01 to 9999).
- Bright Seven segment LED display for better readability.
- \*RS485 communication (On Request).

### TMCB 014







### TMCB 032



### DIGITAL POWER FACTOR (COS) METER

- Accuracy Class: 1.0/Class 0.5 (Optional) Single Phase two wire
- Supply: 170V – 260Vac, 50Hz
- Display: One Line Seven Segment display, Size 0.56
- Dimension: 95mm (H) x 95mm (W) x 84mm (D)

### PROGRAMMABLE DIGITAL WATT METER

Class: 1.0/ Class 0.5(Optional) Single Phase two wire

Supply: 170V – 260Vac, 50Hz

Display: One Line Seven Segment display, Size 0.56

Display Parameters: Wattage CT Selection: Programmable through Keypad

Dimension: 95mm (H) x 95mm (W) x 84mm (D)

### TMCB 033



### TMCB 032-3P



### THREE PHASE PROGRAMMABLE DIGITAL POWER FACTOR METER

- True RMS Measurement
- 4 Digits display
- Auto scrolling & manual mode selectable
- Bright Seven segment LED display for better readability

### THREE PHASE PROGRAMMABLE DIGITAL WATT METER

- True RMS Measurement
- 4 Digits display
- CT Ratio Programming (Range: 5/5 to 9000/5)
- Auto scrolling & Manual mode selectable
- Auto decimal shifting for kW (from 0.1 to 1)
- '–' LED indication for negative kW 'k' LED indication for 'x1000'
- Bright Seven segment LED display for better readability

### TMCB 033-3P





### TMCB 040



### Digital Volt Amps Meter (2 LINE DISPLAY)

- Display parameters - volt and Amps 2 Line display  
Digital Panel Meter (72\*72\*35mm)
- System Supply Voltage : 230 Vac, 50 Hz
- System Voltage Range : 80-500 Vac
- Current Range : Upto 40A

### DIGITAL VOLT METER

- Application : submersible pump control panel and voltage measurement
- Dimension :(72\*72\*35)
- System supply voltage:230 vac, 50hz
- Supply voltage:80-500vac

### TMCB 041



### TMCB 042



### DIGITAL AMPS METER

- Digital amps meter
- Dimension :72\*72\*35
- System supply voltage : 230 vac , 50hz
- Current range : up to 40a

### DIGITAL VOLT AMP METER (SINGLE LINE)

- Digital volt amp meter (single line)
- Application : submersible pump control panel
- Dimension :72\*72\*35mm
- Bright seven segment led display for better readability
- System supply voltage: 230 vac , 50 hz
- Supply voltage range: 80-500 vac
- Current range : up to 40a

### TMCB 043





## CONTROL AND MEASUREMENT

### TMCB 049



### THREE PHASE DEMAND CONTROLLER

- Any combination of V/I/F/Kw/Pf/Kwh
- Field programmable CT ratio
- Tripping on over Volt ,Amp,HZ,Kw,Kva

### SINGLE PHASE AUTOMATIC POWER FACTOR CONTROLLER

- Robust Kinetic M Technology
- 4 Digit Power Factor Display
- Real Time Power Factor & Other Parameter Display
- Operational Indicator LED's
- Calibrated PF setting
- Build-In Test Facility
- Programmable up-to 16 stages
- Sensitivity Better than 1% or (10mA)
- Special Alarm Output For Fault Indication
- Dead Band Setting
- Capacitor Bank Switching On Delay Time Setting
- Capacitor Bank Switching Off Delay Time Setting
- Programmable Parameters over Voltage, under voltage, low current, over current, Primary C.T. ratio, secondary C.T. ratio, On delay time, off delay time, number of relays, alarm time, dead-band setting, Pf target setting, lag or lead(0.3 to 1.000 lag and 1.000 lead to 0.3 lead), Adjust to set point Low PF & high pf relay output for alarm
- Universal auxiliary supply 90 volt to 300 volt(also available in 440 volt)

### TMCB 4065



### TMCB 4068



### THREE PHASE AUTOMATIC POWER FACTOR CONTROLLER

- First time in India up-to 24-steps, 3-Phase, 3-C.T, 3-Display
- Programmable up-to 24 Stages
- RYB Indication on Relay Dash-Board
- 4 Digit Seven Segment Display
- With Multi-function Meter Parameters
- Robust Technology
- Protection Fuse on Common Point
- Sensing less than 1% of C.T. ratio
- Power Supply, 3-phase 4-wire
- Temperature Controlled Cooler for APFC panel(In-build)
- One N/O for Alarm
- Easy Programmable
- Build-In Test Facility
- Operational Indicator LED's
- 5 amp or 7 amp Contact Available
- Low Power Consumption(Less Than 2 watt)
- Accuracy Class 1% with all Meter Parameters
- Front Bezel Compliance IP54





## CERTIFICATIONS



IS 13779



**Techno<sup>®</sup>** METERS & ELECTRONICS

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