

## Three-Phase Static Energy Meter 37TM



### Overview

VISIONTEK 37TM Three Phase Electronic Energy Meter is designed to meter residential and commercial category consumers in distribution networks. The meter is targeted at the deregulated energy markets which require flexible tariff structures and a modern energy management.

37TM is a perfect combination of well-proven metering technology sealed in a single enclosure with multiple communication interface options. The intelligent features of detecting and recording different anomaly conditions and cover opening events make it ideal choice for revenue protection for distribution companies.

37TM Energy Meter complies with IS-13779, CBIP-325 and communication protocol in accordance with IS 15959 (Part -1) with the latest amendments as Category C2 for interoperability in data transfer from the meter.

Event Logging

TOD Metering

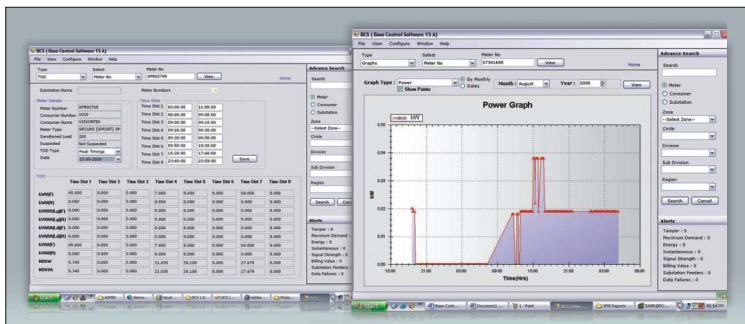
Load Profiling

Remote Meter Reading

### Features

- Class 1.0 accuracy and compliance with IS/IEC standards
- LCD for display of measured parameters & for anomaly conditions
- LED indications for calibration of active energy & reactive energy
- Billing point registers storage up to last 12 months
- Programmable TOU / TOD
- Event logging of anomaly conditions and cover open detection
- Ultrasonic welding option
- Programmable load profile data for 15 or 30 or 60 minutes interval for kWh, kVAh, kVAh, Voltages, Currents
- Optical communication port / IR\*/IrDA\* for local meter reading
- RS 232 port\*, Inbuilt LPRF module\*, BLE Communication\* for Remote Meter reading
- Meter reading in absence of mains with built-in battery
- High immunity to magnetic influence and electrostatic discharge
- Sealing provision for meter cover & base and terminal cover

# Supporting Utilities



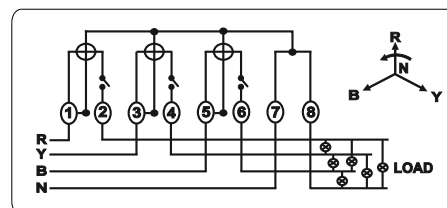
Meter Reading Software 36MS



Meter Reading Cable

## Specifications

Connection Type	Three Phase Four Wire
Accuracy	Class 1.0 as per Is13779, IEC 62052-11/IEC 62053-21,CBIP 325
Voltage	3 x 240V (L - N) Operating : -40 % to +20 %
Current	10-60A, 5-30A*, 10-40A*, 20-100A*
Power Factor Range	Zero lag – Unity – Zero lead
Frequency	50 Hz $\pm$ 5%
Starting Current	0.2% of Ib at Vref, Unity Power Factor
Power Consumption	Voltage Circuit: 1.5W/8.0VA   Current Circuit: 4.0VA
Display	LCD with backlit, 8 digit 7 segment display for parameters & icons for anomaly conditions
Real Time Clock	$\pm$ 3 min per year
Communication Interfaces	Optical port Hardware compatible to IEC 62056-21 *IR port *RS232 port (RJ11) *Inbuilt LPRF module *BLE Communication *Communication protocol as per IS 15959 Part-1 Category C2
Data Storage	Non-volatile memory with a retention time of minimum 10years
Measured Values / Units	Active energy Reactive energy, Apparent Energy Maximum Demand kW / Rising Demand Maximum Demand kVA / Rising Demand Instantaneous Phase wise Voltages Instantaneous Phase wise Currents Instantaneous Frequency Instantaneous Power Factor
Maximum Demand (MD) Register	Register Programmable Integration period for 15 or 30 or 60 minutes Sliding window or Fixed window method
Billing registers	Up to last 12 months bill point registers
Time of Use / Time of Day	Programmable time zones
Tariff registers	Programmable tariff register
Events Logging	Missing Potential; Potential Unbalance*; High Potential*; Low Potential*; Current Reversal ; Current Circuit High*; Current Circuit Low*; Current Unbalance*; Current Circuit open; Current Circuit short (bypass) ; Neutral Disturbance ; Power ON / OFF ; Top Cover Open Detection ; Magnetic Influence ; Low Power Factor*; Over Load*
Temperature Range	-10° to 60° C
Humidity	$\leq$ 95%
Enclosure	IP 51
Dimensions (L x W x H) in mm	232 x 192 x 96 mm +/- 2 mm (Varies with terminal cover length)
Weight	1.35 kg +/- 0.1 kg



Meter Connection Diagram

Note: We pursue a policy of continuous research and product development. Specifications and features are subject to change without notice

\*Indicates optional feature

Disclaimer: VISIONTEK® is a registered trademark owned by Linkwell Telesystems Pvt. Ltd.



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