

# Three Phase Energy Meter 37TM



Approved by  
GUVNL

Bi-directional  
Metering



## 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. 37TM Energy Meter complies with IS 13779, CBIP-325 and communication protocol in accordance with IS 15959(Part-I) 2011 with latest amendments category C2 for interoperability in data transfer from meter. Measurement of bi-directional energy is also available in the meters for solar roof-top bi-directional metering.

**New**

Bi-directional metering

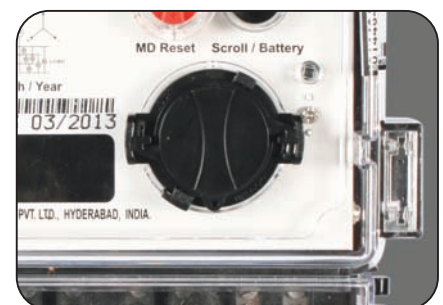
TOD Metering

Load Profiling

Remote Meter Reading

## Features

- Class 1.0 accuracy compliance with IS/IEC standards
- Bi-directional energy measurement for Net-metering application
- 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 for 15 or 30 or 60 minutes interval for kWh, kVAh, voltages, currents
- Optical communication port / IR\* for local meter reading
- RS 232 port\*, Inbuilt LPRF module\* 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

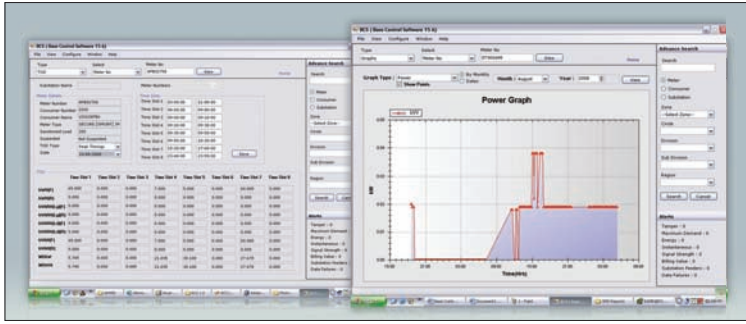


Optical Communication Port

For more information on products  
visit : [www.smart-energy-meters.com](http://www.smart-energy-meters.com)  
or email : [energymeters@visiontek.co.in](mailto:energymeters@visiontek.co.in)



# Supporting Utilities



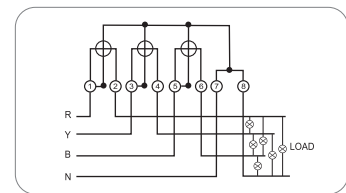
Meter Reading Software 36MS



Meter Reading Cable

## Specifications

Connection Type	Three Phase Four Wire
Accuracy	Class 1.0 as per IS-13779, IEC 62052-11/IEC 62053-21, IEC 62053-22, CBIP-325
Voltage	3 x 240V (L - N) Operating : -40 % to +20 %
Current	10-60A, 5-30A*, 10-40A*, 10-100A*, 20-100A*
Power Factor Range	Zero lag – Unity – Zero lead
Frequency	50 Hz ± 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	± 3 min per year
Communication Interfaces	Optical port Hardware compatible to IEC62056-21 * IR port * RS 232 port (RJ 11) * Inbuilt LPRF module * Communication protocol as per IS15959(Part-I) 2011 with latest amendments Category C2
Data Storage	Non-volatile memory with a retention time of minimum 10 years
Measured Values / Units	Active energy(Import/Export)* 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	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 registers
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	≤95%
Enclosure	IP 51
Weight	1.4 Kg ± 100 gms
Dimensions (L x W x H) in mm	232 x 192 x 96



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



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