Three Phase CT Operated Energy Meter 37CM

OPTICAL PORT | RS 232

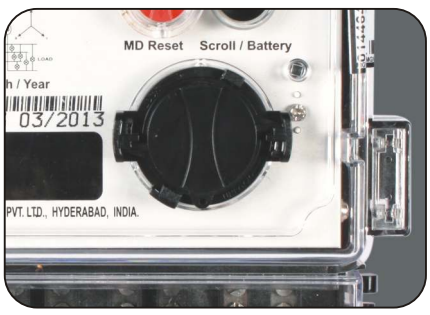
Overview

VISIONTEK 37CM Three Phase Electronic Energy Meter is a CT operated trivector meter designed to meet the energy metering requirements of high power consumers. 37CM is suitable to deploy for industrial consumer (LT) revenue metering and distribution transformer metering for audit purposes. Meter complies with IS and IEC Class 0.5S metering standards, CBIP TR 88/304 and communication protocol in accordance with BIS ICS ETD 13 doc 6211 (IS 15959) Category A (DT Energy Audit metering)and Category C (LT Consumer metering) for communication interoperability.

Event Logging	TOD Metering	Load Profiling	Remote Meter Reading

Features

- Class 0.5S accuracy 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 tampers and cover open detection
- Optical communication port for local meter reading
- Programmable load profile for 15 or 30 or 60 minutes interval for kWh, kVArh, kVAh, voltages, currents
- RS 232 port* 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
- Interoperability through open communication protocol



Optical Communication Port

For more information on products
visit : **www.smart-energy-meters.com**
or email : **energymeters@visiontek.co.in**

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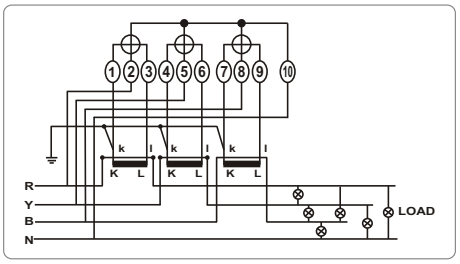
Supporting Utilities

Meter Reading Software 36MS

Meter Reading Cable

Specifications

Connection Type	Three Phase Four Wire
Accuracy	Class 0.5S as per IS-14697, IEC 62052-11, IEC 62053-22, CBIP TR 88/TR 304
Voltage	3 x 240V (L - N) Operating : -40 % to +20 %
Current	-/5A, Ib : 5A and Imax : 10A (Programmable CT Primary value)
Power Factor Range	Zero lag - Unity - Zero Lead
Frequency	50 Hz ± 5%
Starting Current	0.1% of Ib at Vref, UPF
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 RS 232 port (RJ11) Communication protocol as per BIS ICS ETD 13 (6211) Category A & Category C
Data Storage	Non-volatile memory with a retention time of 10 years
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	Integration period for 15 minutes or 30 minutes or 60 minutes Sliding window or Fixed window method
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*
Billing registers	Up to last 12 months bill point registers
Time of Use / Time of Day	Programmable time zones
Tariff registers	Programmable tariff registers
Temperature Range	-10° to 60° C
Humidity	≤95%
Enclosure	IP 51
Weight	1.35Kg ± 100 gms
Dimensions (L x W x H) in mm	232 x 192 x 96



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

VISIONTEK

Linkwell Telesystems Pvt. Ltd. 1-11-252/1B, Behind Shoppers Stop, Begumpet, Hyderabad 500 016, Telangana, INDIA
Telephone: +91 40 66388000, Fax: +91 40 66388006, 27763838 e-mail: info@visiontek.co.in **www.visiontek.co.in**