Three Phase CT Operated Energy Meter 37CM

Approved by GUVNL

Bi-directional Metering

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 325 and communication protocol with IS 15959(Part-I) 2011 with latest amendments category C1 for DT Energy Audit metering and LT Consumer metering for interoperability. 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 0.5S 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 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
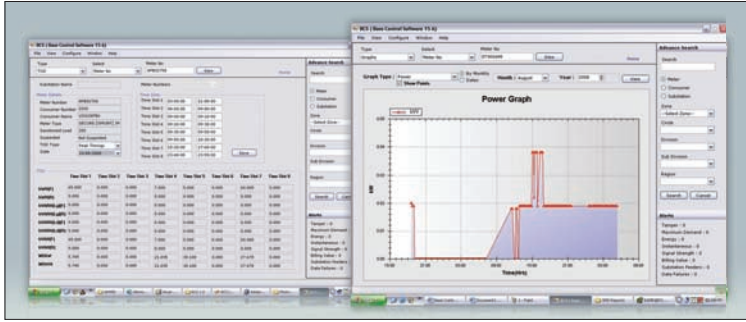- Interoperability through open communication protocol
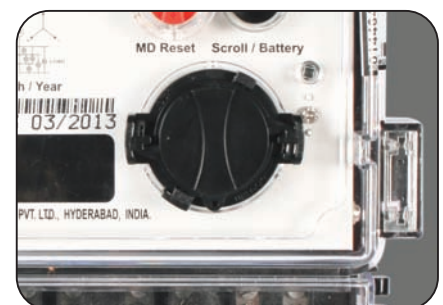
Optical Communication Port

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

ISO 9001:2015
TÜVRheinland CERTIFIED
www.tuv.com
ID 9105063003

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 62053-21, IEC 62053-23, CBIP-325
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 & 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 RS 232 port (RJ11) Communication protocol as per IS15959(Part-I) 2011 with latest amendments Category C1
Data Storage	Non-volatile memory with a retention time of 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	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
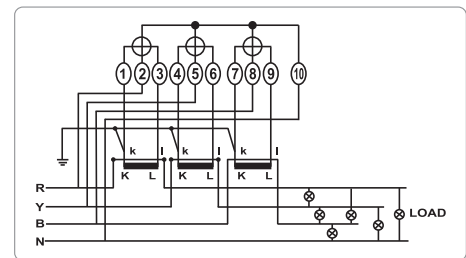
Connection Diagram

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

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