

TRIVECTOR METER PCM9019

FEATURES

- True RMS Measurement
- More than 75 parameters displayed in a single meter
- 3 or 2 Element Measurement
- Accuracy Class 0.5 (IS14697)
- Programmable PT / CT Primary
- Energy Storage in EERAM
- Run hour Indication
- Replaces several meters in a electrical panel
- Direct reading without multiplication factor
- Selectable time base 15/30 minutes
- Auto ranging of display parameters
- Highly stable calibration by software means
- Low power consumption
- Measures 4 quadrant power and records 2 quadrant energy, demand
- Built in phase analyzer for proper connection
- Digital Calibration by software
- Sealed dust proof ABS Plastic Enclosure
- Low PT/CT Burden (less than 0.2VA)
- Optically isolated Rs485 communication output with MODBUS RTU protocol
- Load Survey Data Storage
- Tamper/Failure Recording
- Data Logging using CMRI with Optical Port confirming IEC 1107 protocol
- Unidirectional / Bidirectional energy recording



TIME OF THE DAY (TOD) METER

The Trivector Meter has built-in feature of time of the day meter. The 24 hour duration is divided into 6 slots with 4 individual zones. The meter got facility to register all the energy consumption kVAh, kWh, kVArh & Max. Demand for four time zones separately.

LOAD SURVEY FEATURE

Registers are provided to record load survey data of 4 energy parameters and demand. The integration period and number of days are programmable.

TAMPER / FAILURE RECORDING

Various Tamper / Failure conditions such as voltage failure, current failure, current unbalance, current reversal and power failure are recorded with data and time. The total number of events occurred are also stored.

OPTIONAL FEATURES

- ✂ Total Harmonic Distortion (THD) display of 3 phase voltage and current
- ✂ RJ45 Ethernet connectivity with MODBUS / TCP support
- ✂ Seperate energy register for export energy recording
- ✂ 1 No. potential free relay output contact for user defined function
- ✂ 2 No. digital input for user defined function

APPLICATION

- ✂ Sub Station Metering
- ✂ Industries and Buildings
- ✂ Hotels & Hospitals

TECHNICAL SPECIFICATION

MEASURED QUANTITIES

- Parameter Shown :
- 1) 3 Phase, Phase to Neutral Voltage
 - 2) 3 Phase, Phase to Phase Voltage
 - 3) 3 Phase Current
 - 4) 3 Phase kVA, kW, kVAh, PF and Frequency
 - 5) Average Voltage, Current, Total kVA, kW, kVAh, PF & Average PF till last MD reset
 - 6) Total kWh, kVAh, kVAh (Lag & Lead) Import and Export
 - 7) TOD kVAh, kWh, kVAh (Lag & Lead) for 4 zones
 - 8) Rising demand kVA
 - 9) Prediction demand kVA
 - 10) Maximum demand with Date & Time
 - 11) TOD maximum demand with date & time (4 zones)
 - 12) Cumulative maximum demand and MD reset counts
 - 13) MD History and Power Fail / Resume Records
 - 14) Load Survey registers
 - 15) Tamper recording

RATINGS

- Voltage Range : 80V to 520V AC line to line for LT
25V to 140V AC line to line for HT
- Standard Current : 1A / 5A
- Max. Current : 1.5A / 7.5A
- Frequency Range : 40.00 to 60.00 Hz
- PF Range : 0.00 Lag to 0.00 Lead
- Auxiliary Supply : 240V AC (-20% to +10%)
- Operating Temperature : 55° C (Max.)

DISPLAY

- Type : 2 Row 16 Character LCD with Backlit
- Character Size : 4.35 (H) x 2.95 (W) mm
- LCD Power Save Mode : Provided. When no key is pressed for 3 minutes, the LCD Backlit is switched OFF to save power and enhance the life of LCD. The LCD is switched ON when any key is pressed

MEASUREMENT

- Method : 3 Phase 4 wire for LT
3 Phase 3 wire for HT
- Accuracy : Class 0.5,

INPUT AND OUTPUT

- Calibration Output: 3200 Imp/kWh
- Digital Inpt : 2 (Function user defined)
- Relay Output : 1 (Function user defined)

KEY FUNCTIONS

- Key Pad : 8 Keys namely Index, Shift, Increment and Enter used for Program mode setting and Run mode selection
- Program mode Parameters : PT Primary Voltage, CT Primary Current, Device address, Energy and Run hour MD Reset
- Unauthorized Person : Provided through Password Facility Entry Protection
- Setting, Energy and Run hour Storage : EERAM

COMMUNICATIONS

- Type : Rs485, Ethernet,,
- Protocol : MODBUS - RTU, MODBUS - TCP
- Isolation : Provided
- Traffic Status : Indicated through TXD, RXD LED

CASE AND DIMENSIONS

- Enclosure : ABS Plastic
- Dimension : 144(H) x 144(W) x 150(D) mm
- Cutout : 136(H) x 136(W) mm
- Mounting : Flush / Panel

APPROVALS

- Type test Approved as per IS14697 Standards for Class 1, Class 0.5
- Confirms EMI, EMC Regulations as per IS14697 standards

PLEASE PROVIDE THE FOLLOWING DETAILS WHILE PLACING YOUR ORDER / ENQUIRY

1. Voltage Input 2. Current Input 3. HT / LT Application 4. CT Primary 5. PT Primary 6. Self Powered / External Supply.

OUR RANGE OF PRODUCTS

Volt Meter, Ammeter, VAF Meter, Energy Meter, Dual Source Meter, Load Manager, Power Multimeter, Trivector Meter, Maximum Demand Controller, Harmonic Indicator, Power Factor Controller, Smart PF Controller, Power Factor Correction Panel, AC Voltage Controller, AC Current Controller, Motor Protection System, Voltage/Current/Power/Frequency Transducer, Power Transmitter, Energy Management and Billing Systems etc...



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