

Class 0.5S & Class 1 Meters for all HVCT and MVCT applications



Accuracy

- Class 0.5S (to IEC 60687) (to IEC 61036)
- Class 1 & 2

Voltage

- Nominal 57 to 240V (phase to neutral) Burden - <10VA / phase @ Vn (3 phase), as per IEC 62053-61,
- 1998
- Frequency 45-65 Hz

Current

- C.T. Range 1/1.2A, 5/6A, 1/4A and 5/20A
 W.C. Range 10/100A (Class 1 only)
- Short time over-current 20 times the I_{max} for 0.5 seconds
- Burden <0.5VA/phase

Auxiliary Supply Options

240V, 110V (other voltages available on special order)

Measurement Modes

- Single phase (3 circuits)
- 3 phase 3 wire
- 3 phase 4 wire

Measured Energy Values

- 3 element, 4 quadrant
- Import/Export Wh, varh and VAh
- Absolute Wh, varh and VAh Phase A,B,C or Total

- Other Measured and Displayed Values
- Power: W, var, VA
 True RMS Voltage (3 phase)
 True RMS Current (3 phase)
- Power factor
- Frequency
- Phasor angles

- Pulsing Inputs / Outputs
 Maximum of 8 I/O with up to 8 outputs (2 standard) or 6 inputs
 Output voltage 5 ~ 220V DC, 12 > 240V AC
 Output current 0.1A maximum
 Output pulse width 1ms to 250ms
 Programmable output polarity
 Input voltages 5, 12, 48, 110, 240V AC/DC
 Time synchronised (optional)

Communications

- Local ANSI type 2 optical or FLAGTM (IEC 1107) Remote Isolated RS485 or RS232 or both

Communications Possibilities

- ANSI Type 2 Optical
- IEC 1107 RS232 (RTS/CTS and DTR/DCD)
- . RS485 (2 or 4 wire multidrop)
- SCADA
- Modems (PSTN/GPRS/GSM/CDMA) MV90[™] •
- **MODBUS®**
- PPP/GPRS .
- DNP3 Optional internal modem power supply
- Master/Slave arrangement with up to 31 'Slave' meters accessed through one 'Master' Gateway meter •

- Temperature Range

 • Operating
 -10 to +60°C
- Storage -40 to +85°C

Time Keeping

EDMI

- Accuracy (internal) +30 sec/month
- Backup time 2 years without power Backup type lithium battery and optional SuperCap
- Mains synchronised or internal crystal time keeping.
- Mains synchronised reverts to internal crystal on loss of all phase volts

Total Metering Solution Sdn. Bhd.(Co. No:476265-H)

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Data Storage (Configuration, TOU Data and Load Survey)

- FlashRAM, indefinite storage period Battery backed up RAM

Time Of Use

- 8 rates plus unified rate
- Up to 12 separate import and export registers
- Up to 200 programmable special days Daily, Weekly, Monthly, Yearly, Special 13 or more previous periods
- Block or Rolling Maximum Demand Time of Maximum Demand

Load Survey / Profile

- NEM compliant
- 400 day-channel capacity at 30 minute intervals Up to 50 channels
- Interval programmable from 1 second to 1 month
- Multiple independent surveys
- Energy, instantaneous readings, pulsing inputs, average/min/ max readings

Sag / Swell

- 5 cycle resolution
- Records time/date/phase/duration/worst excursion Programmable trigger levels

LCD Display

- 16 character by 2 line alphanumeric display
- Programmable units, multipliers and leading zeros
- Up to 64 user definable screen displays
- Displays any available meter parameter

Optional Functions

- Quality of supply (QOS) features
- Waveform capture
- Harmonic analysis to the 50th harmonic THD measurement
- Fundamental energy measurement

Equipment Failure Alarms (EFAs)

A single user defined alarm condition (via scripts) is available plus pre-programmed alarms based on numerous: Self checks

Tamper and wiring checks

latest updates

LCD menu system

Voltage quality

Software

22 & 22A, Jalan Anggerik Vanilla 31/93, Kota Kemuning, 40460 Shah Alam, Selangor D.E. Malaysia.

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Magnetic tamper detection Power factor control extension

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These alarms can: These alarms can be alar

Examples of currently available Extensions are:

Average power factor for billing period

Voltage sag / swell or power outage Power factor / power quality

Send SMS on equipment failure alarm

programming and reading the meter

meter parameters, for later upload

Send SMS at percentage of maximum demand

Maximum demand control of loads via pulsing outputs Average voltage, current, unbalance, THD etc

EziView Windows® software (optional), can be used for

EziView also allows offline configuration of tariff programs and all

- Record an event in the event log
- Trigger an event such as a remote alarm or dial an emergency number via scripts

Extensions for Customer Applications: standard or to order

The Genius meter introduces the concept of Extensions to the revenue-

metering world. The increasingly complex nature of revenue metering has necessitated the development of exciting new programming tools that allow customers to tailor the meter for specific applications. Using

"EziScript", a scripting language developed by EDMI, complex register

manipulations can be performed allowing sophisticated changes to the meter operation. EDMI offers custom Extension writing services. New

Extensions are constantly under development - contact us to find out the