

Genus Overseas Electronics Ltd.

Manufacturer of Electronic Energy Meters and Energy Management System

Genus Overseas Electronics Ltd., an **ISO 9001: 2000** Public Limited Company is a part of the reputed **125 million USD Kailash Group**. Today, Genus a leading name in **Hybrid Microcircuits ,Electronics Energy Meters , Inverters, UPS & Digital Set Top Box** in India. Genus has the largest installation base of more than 7 million Electronic Energy Meters in India.

Genus has State-of-the-art manufacturing facilities at Jaipur (Rajasthan) with **in-house R&D Centre, recognized by Department of Science & Technology, Government of India**. The Products are comply with standards and specifications as laid down in National and International Standard such as BIS/IEC/BS etc.

Some of our major customers are **Reliance Energy, TATA Power, Central Electronics Ltd, BEL-Banglore & Kotdwar, Maruti Udhog Ltd, BSNL, ITI and major State Electricity Boards e.g. MSEB,RSEB,MPSEB,AEC,KSEB,DHBVNL,UPPCL,UPCL,KSEB,ASEB etc.**

Genus now offers a wide range of affordable Modular Range of Digital Meters i.e.**Industrial Panel Meters, Power Meters, Energy Meters, Multifunction Meters,Load Managers,Demand Controllers & Harmonic Analysers**, etc. with / without RS-485 communication facility to fulfill the needs of Industrial and Commercial customers. These meters accurately measure, monitor and control the electrical power.**Genus** also offers Energy Management Software for data logging and controlling purpose.

Genus offers Energy monitoring System comprises of front end equipment. Viz.:

1) For the **LT/HT** Networks we have offered our state of the art **GPM-2000/4000** Model as an (optional).This model can be used on both high and low voltage networks and has the following key features :

a. Measuring:

- Voltages on all phases both phase to phase and phase to neutral.
- Currents on all the three phases and the neutral current.
- Active power (KW), Reactive Power (KVAR), & Apparent Power (KVA) will be phase wise as well as sum of all phases for KW, KVAR, KVA.
- Maximum power (in KW, KVAR & KVA) over a programmable period of 5 to 60 minutes.
- Average Power in KW, KVAR & KVA over a programmable period of 5 to 60 minutes.
- Power Factor in all phases & average and frequency.
- Frequency

NETWORK

The meter is capable of working on the following networks and this network selection should be site selectable and user definable:

1. Three Phase, Four Wire Balanced and Unbalanced.
2. Three Phase, Three Wire Balanced and Unbalanced.
3. Low Voltage Network:
 - i. Direct voltage reading 0 to 700 V ac(phase/phase)
 - ii Direct voltage reading 0 to 400 V ac (phase/neutral)
4. High Voltage Network:
 - i. From 0 to 400 kV through a P.T.
At least of 110 V ac secondary voltage.

Current Transformer selection: The meter is suitable for working with either 1A. or 5 A.CT secondary and upto 10,000A CT (Primary)

COMMUNICATION

1. The meter have a communication facility in form an RS 485 port.
2. The data should be communicated on a MODBUS or J Bus protocol RTU mode.
3. The protocol should be internationally applicable protocol and all the data table addresses would be made available to the purchaser so that the purchaser has option to utilize their own independent software and not depend upon a particular supplier's software.
4. For completeness,each meter should have a built-in-end of line resistance of 120 Ohm required for MODBUS communication.
5. Each meter should have the facility to define its address on the meter itself and it should be site configurable.This address should be programmed on the meter and dipswitches or other such hardware for this requirement is not acceptable.
6. The meter should be capable of working on communication speeds from 2400 to 38400 bauds.This communication speed should also be programmable on the meter and site selectable.
7. The following communication parameters should also be user definable and site Configurable:
 - i. **Parity:**No/ Odd / Even
 - ii. **Stop Bit:** 1
 - iii. **Address of each meter.**
 - iv. **Communication Speed**

SOFTWARE FEATURES

1. Genus provides an user friendly software ,upto 255 meters can be connected in the periphery of 1500 metres .
2. Monitoring of variour electrical parameters with values and graphical form is possible .
3. Data Logging is possible .
4. Analysis of all electrical parameters i.e V,I,P,Q,S,PF, and F is possible .
5. Analysis of Energy is possible .

Genus Overseas Electronics Limited
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