



Genus-Agrim

Pre-Payment Energy
Metering Solution



Genus Agrim Smart Grids empower to not just conserve but control electricity. Genus offers innovative power distribution management solutions that are enabling households, businesses, utilities and entire cities to become more power-efficient, and also save millions every year.

Building Blocks For Power-Efficient Distribution Companies

The Genus agrim Pre Payment Energy Metering Solutions is a flexible and secure revenue management solution for electricity distribution companies, developers and societies. The solution automates and simplifies advance revenue collection, demand management and remote two way communication.

The solutions comprises Single Phase & Three Phase MKeypad based meter and a webbased central server for meter database & vending software management, along with an optional in-house consumer Interface Unit (CIU).

The internationally recognised monetary TDES encrypted numeric meter specific vend token is generated from the central web server with configurable tariff structure and transferred into consumer meter using a meter keypad or CIU Keypad or electronically using optical RS232 port. The system recharge process is given below:



Genus Agrim Pre Payment Energy Metering Solution is available for Single supply source as well dual supply source that complies IS15884/IS13779 and latest CBIP report no.88.

SOLUTION FEATURES

- Secured web-based vending server
- Monetary consumption information
- Two way communication compatible
- In-house descriptive display unit
- Auto supply & load management
- Bicolour LED indication (Green & Red)
- DUAL Latching Relay for P-N elements
- Fail safe features
- Alerts before disconnection
- Configurable complex tariff structure

BENEFITS TO UTILITIES

- Advance revenue recovery
- Better demand & load management
- Remote two way communications
- Reduced infrastructure & resources for meter reading, bill distribution, payment collection and maintenance & operation
- Instant tariff implementation
- Inventory management

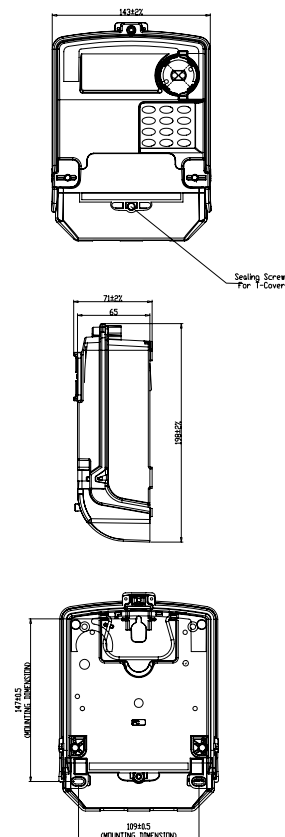
BENEFITS TO CONSUMERS

- Eliminate billing hassles like reading errors, wrong billing, bill receiving and due date penalties
- Display monetary consumption
- Demand & load monitoring
- Energy scrutiny & budgeting
- Conditional alarm alerts
- System transparency

*Genus-Agrim*TM DUAL supply source is used to record both GRID and DG supply consumption separately in one meter and deduct the amount according to current supply source tariff and instant load. Wireless remote communication through DCU is most beneficial for developers for two way communication compatibility.

Technical Specifications

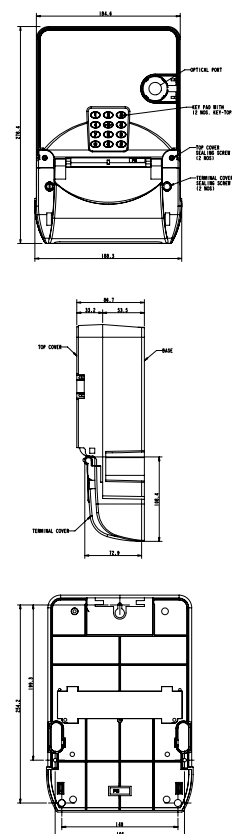
	1P Meter	3P Meter
Voltage Rating	240V P-N, 1-P, 2W System	240V P-N, 440V P-P, 3P-4W System
Current Rating Ib Imax	10 A 60 A	10 A 20A 60 A 80A
Frequency	50 Hz + 5%	
Metrology	ISI 5884/IS 13779 / IEC62051-11, IEC62053-21, Class 1.0	IS 13779 / IEC62051-11, IEC62053-21, Class 1.0
Power Consumption	Current <2.5 VA Voltage < 2W / 10 VA	Current <2.5 VA per phase Voltage < 2W / 10 VA per phase
Time Clock & Calendar	RTC backup Lithium battery Battery life: 7 Years	
LED Indications	Pulse LED for consumption Bicolor LED credit status: Green for healthy zone else RED	
Environmental Operating Temp Storage Temp Operating Humidity	-10° C to 50° C -25° C to +70° C Up to 95% non condensing	
Mechanical Dimensions (HXWXD)		
Load Contractor	Latching Relays both in Phase & Neutral	
Imax Max Operations	10000 Nos.	



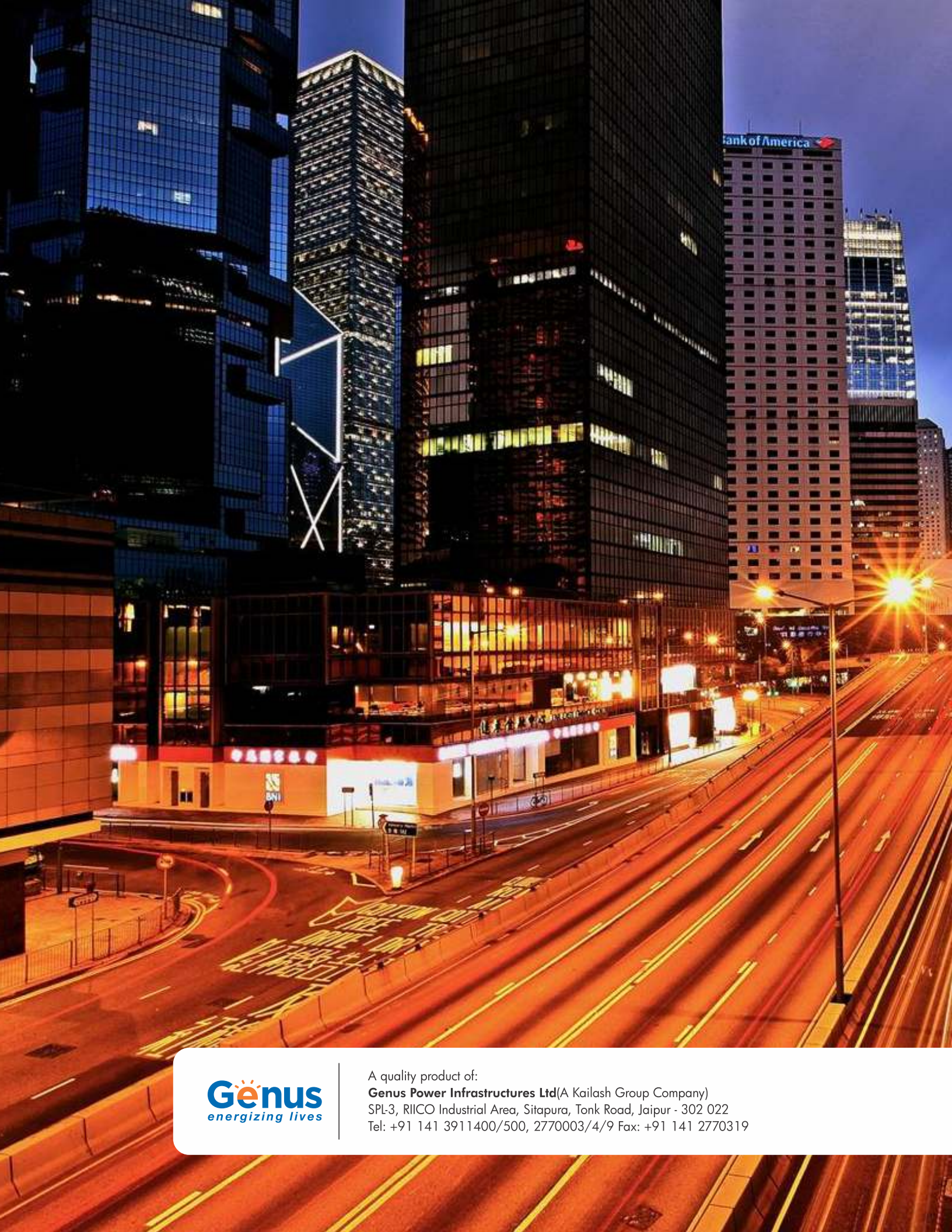
SINGLE PHASE

Functional Specifications

Metering	Active
Display Features	<ul style="list-style-type: none"> • Credit Balance • Cumulative kWh • Current demand & Load • Monetary Consumption • Tariff related information • Histories for consumption auditing • Tamper indication on predefined logics • Current running load cost • Approx Days left (till credit lasts)
Tariff Configuration	<ul style="list-style-type: none"> • Both slab and TOU tariff • 08 Non-overlapping Boundaries and Rates • Fixed & variable charges • Tax & Rebates • Weekly & Monthly consumption details for both SEB/DG supply sources • Instant electrical parameters • Billing history for upto past 6 months
Load Configurations	<ul style="list-style-type: none"> • Sanction load, Overload and Over Current • Auto Connection & Disconnection • Partial Back Up configuration for dual source
Weight	Single Phase Meter : 0.85 KG Three Phase Meter : 2.50 KG CIU : 0.32 KG



THREE PHASE



A quality product of:

Genus Power Infrastructures Ltd(A Kailash Group Company)

SPL-3, RIICO Industrial Area, Sitapura, Tonk Road, Jaipur - 302 022

Tel: +91 141 3911400/500, 2770003/4/9 Fax: +91 141 2770319