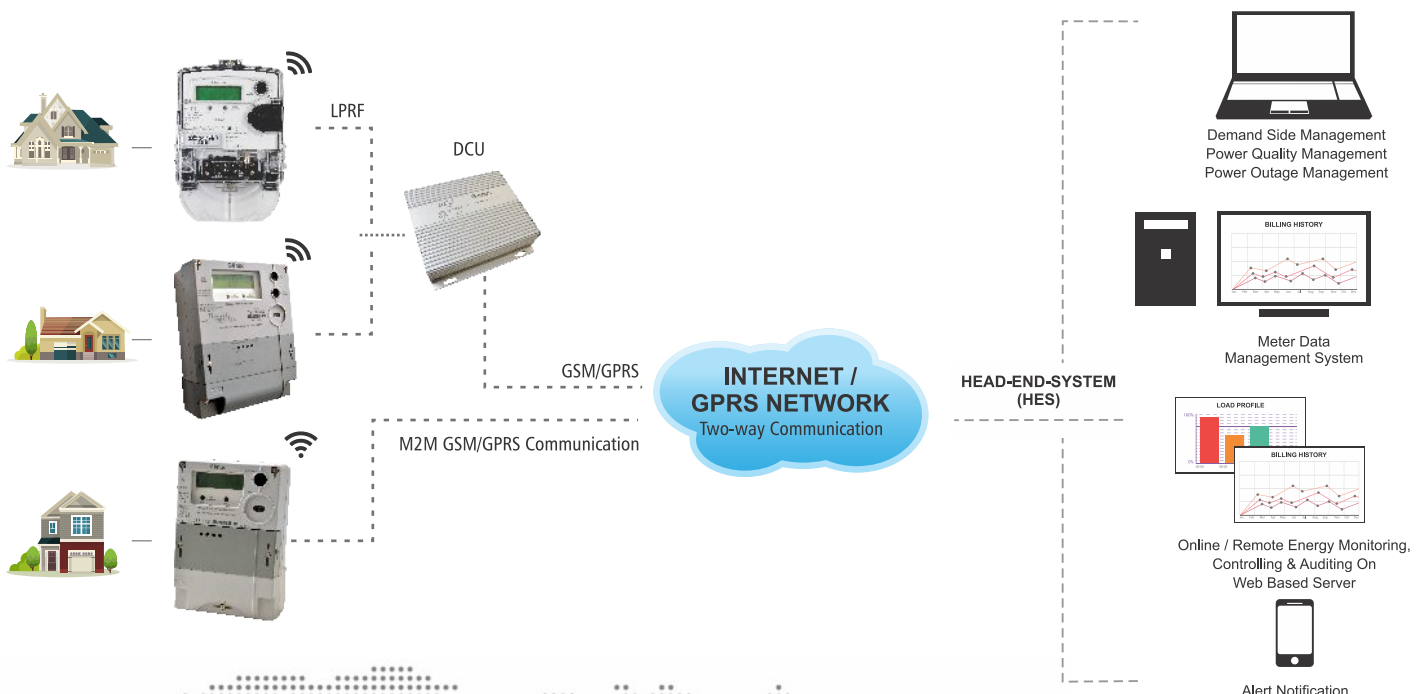




Saksham

Smart AMI Solution (Meter + MDMS)

Genus "Saksham - 125 / 145 (Single Phase) & 345 (Three Phase)", an ideal solution for Advanced Metering Infrastructure (AMI) system intended for Peak Load, Power Quality Management with Multi-Rate/Time-of-Use and Anti-Tampering features are suitable for Commercial and Residential Consumers of Single Phase / Three Phase Service Connections. These measure, collect, analyze, control the Energy Usage and Communicates with Head End System (HES) both 'on request' & 'on schedule'. This gives unparalleled end-to-end visibility to the utility into their distribution network.



METER FEATURES

Metering Features

- Single Phase and Three Phase direct connected smart meter.
- Accuracy Class 1.0
- Maximum Demand kW measurement.
- TOU metering with active & passive calendars, each having two seasons with up to 8-registers and 8 time zones per day.
- Last 6 months billing history.
- Last 35 days load profile data and daily energy profile data.
- Power Quality Information.
- Voltage sags.
- Swells, Long power failures, Event logs & Power quality.
- Transaction events & Relay control.
- Optical port for local communication based on DLMS / COSEM protocol.

Communication Features

- Integrated 2-Way communication
- DLMS / COSEM based open standard.
- On demand two-way communication.
- Scheduled Push to Head End System.
- Event reporting to AMI server in case of tamper and anomalies.
- Plug and play deployment.
- Secured transactions with meter.
- RTC time synchronization.

Control Features

- Peak Load Management (PLM) supports two load limits and local relay control.
- Remote connect and detected.
- Remote Management and Control if Theft / Pilferage is detected.
- Auto connect in case of load reduction to acceptable limits.
- Power Quality Management in case of Low/over Voltage etc.
- Prepaid Metering Solutions (Optional)

TECHNICAL SPECIFICATIONS

Standards: IEC 62052-11, IEC 62053-21/23, IEC 62054, IS 13779:99

Connection Type	Single phase 2 wire direct connected Three phase 4 wire direct connected
Standards	IEC 62053-21, IEC 62052-11, IS 13779, CBIP-304
Metrology Accuracy	Class-1
Rated Voltage	240V (+20% to -40%)
Rated Current	Single phase: Ib(I _{max})A = 5(30), 10(60)A Withstands 120% I _{max} Three phase: Ib(I _{max})A = 10(60), 20(100)A Withstands 120% I _{max}
Starting Current	0.2% Ib
Frequency	50 Hz ± 5%
Burden – Voltage Circuit	2W / 8VA
Burden – Current Circuit	<4VA

LED Indicators	LED Pulse output for measurement LED Network status
Communication Ports	Optical Port IEC 62056-21 GSM/GPRS port LPRF Communication (Optional) <ul style="list-style-type: none"> • Licences free frequency band (865 MHz / 2.4 Ghz) • 6LoWPAN Complaint
Communication Protocol	DLMS COSEM
Operating Temperature Range	-10 °C to +55 °C
Storage Temperature Range	-25 °C to +70 °C
Operating Humidity	Up to 95%, non condensing
Degree of Protection	IP51



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