



## Grid & Sub-Station Meter (ABT Compliant)

Three Phase Four Wire HT CT Operated time of Use Static energy Meter with ABT feature is a high precision microcontroller based device and has measurement accuracy for both Active & Reactive Energy upto 0.25.

The 0.25 Class of Accuracy ,self powered with Dual Auxiliary Supply (AC/DC)\* option & true 4-Quadarant Bi-directional Energy Measurement with high speed Ethernet (TCP/IP), RS-232 & RS-485\* (option) communication port makes it ideal for Grid Metering & Bulk Energy Transfer Application.

### Features

- Housed in high grade, flame retardant Engg Plastic/Polycarbonate Suitable for Indoor & outdoor Installation
- 7-Segment LCD Display with back-lit.
- Self Powered Supply or Auxiliary AC/DC supply operated with auto switchover from AC/DC supply\* (optional)
- Pulse O/p for Active, Reactive Energy (Impulse/Unit)
- 4-Quadarant, Import/Export Metering.
- Availability Based Tariff (ABT) feature
- Successive Data measurement for every 15/5\*-Min (Configurable) block of Energy, Demand, Frequency (Import/Export), Average Coded frequency.
- Tamper/fraud Detection & event logging with snapshot details.
- Daily Energy/Demand & Load survey data storage.
- Multiple communication port Compatible for remote & local Data downloading (support Ethernet/RS-485/RS-232 communication).
- Compatible for AMR communication
- User friendly Base Computer Software (Urja™) for Meter Data Analysis at PC/Laptop.

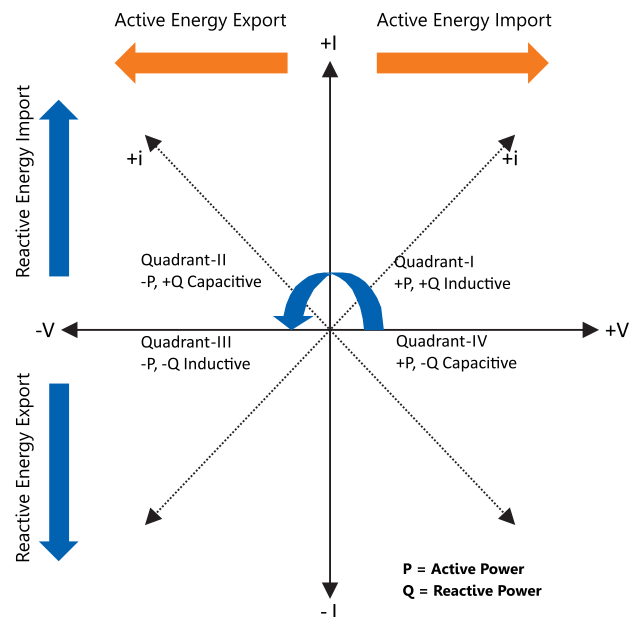
TECHNICAL SPECIFICATIONS	
Voltage	110Volt (P-P), 63.5Volt (P-N) -30% to +20%
Current	I <sub>b</sub> = 1A or 5A , I <sub>max</sub> = 120% or 200% of I <sub>b</sub> As per Requirement
Class of Index	0.25 (As per IS/IEC standards)
Mains Frequency	50Hz±5%
Auxiliary Power Supply	(If Auxiliary powered --Optional)
A. AC Supply	230 Volt
B. DC Supply	110/220V
Power Consumption	
A. Voltage Circuit	<b>&lt;1.5 Watt &amp; 10 VA or Better per Phase</b>
B. Current Circuit	<b>&lt;1 VA or Better per Phase</b>
Applicable Standard	IS 14697, IEC 6205322, CBIP 325, IS 15959
Mechanical Details	
A. Weight	<2.5 Kgs (Approx.)
B. Dimensions (W x H x D)	183mm x 284mm x 83mm
C. Meter Body	Polycarbonate/Engg. Plastic
D. Sealing	1. Meter Base and Cover, Sealing Arrangement 2. Terminal Cover Sealing Arrangement 3. Sealable Communication port & MD Reset Button

SALIENT FEATURES	
Display	7 Segment LCD with Backlit
Communication	
A. Remote	Compatible for GSM/GPRS communication 1. Optical port on front side for on-demand & online communication 2. Additional RS232/RS485* (Optional) communication port 3. Additional TCP/IP* Port (Optional)
B. Local	Data downloading facility through CMRI/HHU
Anti-Tamper / Fraud Detection	1. Self Diagnostic Feature 2. Malfunctioning Detection & Event Logging with Snap Shot Details
Base Computer Software (Urja™)	1. User friendly GUI software compatible with windows 98/XP/Win7 or higher version OS for Meter Data Analysis at PC/Laptop in Graphical & Matrix format. 2. Easy to access, print & save various Analysis reports.

APPLICATIONS	
<ul style="list-style-type: none"> <li>Bulk Power Transfer Point</li> <li>Interface Metering Points</li> <li>Feeders/Grid Sub-Stations</li> </ul>	<ul style="list-style-type: none"> <li>Open Access Consumers/Licensee</li> <li>Tariff Metering</li> <li>Energy Accounting/Audit etc.</li> </ul>

BENEFITS	
<ul style="list-style-type: none"> <li>Separate Energy/Power Registration for Import &amp; Export Metering</li> <li>Separate Energy/Power Registration for Lag/Lead Reactive Quantity</li> <li>Load Survey for every 15/5*Min (Configurable) block</li> <li>2 Digit coded Avg. frequency for every 15-min block</li> <li>Configurable Time of Use (TOD) slots</li> <li>Reliable Data communication Remotely at higher Baud Rate</li> <li>Configurable CT/PT Ratio</li> </ul>	

## QUADRANT DIAGRAM



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