

Single Phase Energy Meter



Introduction

- This is a Single Phase LT Energy Meter intended to measure, store, display and
- communicate instantaneous electrical parameters & energy consumption patterns to
- utility. It is a micro-controller based, static electronic energy meter enclosed in wall
- mounting type cabinet.
- Parameters are displayed in auto scroll mode & push button mode on backlit display.
- This meter has RF port to communicate with HHU or Data Concentrator. It has facility to
- switch-off 60A load.

Salient Features:

- Microcontroller based design.
- Class 1.0 accuracy.
- Complies with IS13779:1999 specifications.
- Display of all instantaneous parameters like kW, kVA, kWh, kVAh, kVArh, PF, V, I, MD Kwh etc.
- “READ” button for reading historical parameters in manual mode.
- Pulse output for onsite accuracy testing.
- Inbuilt Anti tamper features as per the requirements of MSEDCL & other utilities
- Tamperers Available: Magnetic, Earth, Reverse, Neutral Missing, Cover open
- tamper logging with date & time.
- Immune to DC magnetic fields.
- Immune to static discharge up to 35KV.
- Immune to accidental application of 440Vac in incoming lines.
- Surge immunity 4kv.
- Internal relay to disconnect 60A load.
- 865-867 MHz RF – To communicate with data acquisition system.

Technical Details:

Parameter	Specification
Accuracy Class	Class 1
Applicable standard	IS 13779:1999
Rated Voltage, Vref	240V (+20%-40%)
Rated Current, Ib	10A(10-60A)
Maximum Current, I _{max}	60A
Power Factor Range	0.5lag-upf-0.5lead
Frequency	50Hz (+/- 5%)
Display Parameters	Auto scroll 1. Display Check. 2. All Tamper indications. 3.Date 4.Time 5.Active Power, kW 6. Voltage. 7.Current 8.Active Cumulative Energy, kWh 9.MD-kW 10.Date MD 11.Time MD

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