

LoRaWAN Single Phase Energy Meter without Relay



Specification:

S.No	Particulars	Offered by firm
1	Model	LEM01
2	Feature	LoRaWAN Single Phase Energy Meter without Relay
3	Standard applicable	Is-13779 latest
4	Rated voltage	240v +20% to -40%
5	Rated current	Maximum Up to 60 amps
6	Frequency	50Hz \pm 5%
7	Power factor	0.5 lag- unity-0.866 lead
8	Completely type tested to is 13779	Yes
9	Minimum starting current in % of base current	0.4% of ib
10	Maximum continuous current	600% of ib
11	Power loss per phase (i) Voltage circuit (ii) Current circuit	As per is 13779:1999 with latest amendments
12	Accuracy class	Class 1.0
13	Change in error due to a. Variation in voltage, frequency b. Variation in temperature	As per is 13779:1999 with latest amendments
14	Limit of accuracy	As per is 13779:1999 with latest amendments
15	Insulation level	As per is 13779:1999 with latest amendments
16	Test output for calibration & testing	Red color led with high intensity
17	Type of register 1) No. Of digits 2) Backlit	5+1 digits (1decimal) Provided

18	Auto scroll parameter	Cumulative forwarded kwh (DG) Cumulative forwarded kwh (EB)
19	Push button mode	<ol style="list-style-type: none"> a. Segment check b. Meter id c. Real date in dd/mm/yy d. Real time in hh/mm/ss e. Cumulative forwarded kwh (DG) f. Cumulative forwarded kwh (EB) g. DG Tariff set value h. EB Tariff set value i. DG Max load set value j. EB Max load set value k. Balance l. Daily deduction amount m. Set over load count n. Time between two over load attempts o. Set amount of Monthly deduction p. Instant voltage q. Instant current r. Instant load kw s. Instant load KVA t. Instant power factor u. Instant load frequency Parameter automatically transfers to auto scroll after 10 sec when push button not pressed continuously.
20	Parameters to be write with LoRaWAN	<ol style="list-style-type: none"> 1. Data Sampling Interval 2. On Demand Uplink
21	Parameters to be read with LoRaWAN (Periodic & On Demand Uplink)	<ol style="list-style-type: none"> 1. Meter ID 2. EB KWH 3. Frequency 4. Power Factor 5. Voltage 6. Current
22	Compliance to emc & emi	As per is 13779:1999 with latest amendments
23	Communication Details	<ul style="list-style-type: none"> • LoRaWAN Communication • Band: IN865 • Frequency: 865MHz to 867MHz • OTAA Configuration • Class C
24	Degree of protection against dust & water	IP 51
25	Marking on name plate as per is13779	Provided
26	Calibration	Calibration at manufacturing site only