LoRaWAN Three Phase Energy Meter with Relay

Specification:

S.No	Particulars	Offered by firm
1	Model	LEM03-R
2	Feature	LoRaWAN Three Phase Energy Meter with Relay
3	Standard applicable	IS-13779 latest
4	Rated voltage	3x240v +20% to –40%
5	Rated current	Maximum Up to 100 amps
6	Frequency	50Hz ±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	a. Meter id b. KWH (EB) c. Cumulative forwarded KVAh (EB) d. Cumulative forwarded KVArh (EB) e. KWH (DG) f. Cumulative forwarded KVAh (DG) g. Cumulative forwarded KVArh (DG) h. Instant voltage R phase i. Instant voltage Y phase j. Instant voltage B phase k. Instant current R phase l. Instant current Y phase m. Instant current B phase n. Instant load KW R phase o. Instant load KW Y phase p. Instant load KW B phase q. Instant load KW total r. Instant power factor R phase s. Instant power factor Y phase t. Instant power factor B phase u. Instant power factor total v. Instant load frequency w. Real date in dd/mm/yy x. Real time in hh/mm/ss y. Balance z. DG Tariff set value aa. EB Tariff set value bb. EB set load cc. DG set load dd. Daily deduction amount ee. Set over count ff. Time between two over load attempts gg. Set amount of monthly deduction Parameter automatically transfers to auto scroll after 10 sec when push button not pressed continuously.
20	Parameters to be write with LoRaWAN	1. Force Relay off 2. Force Relay on 3. Data Sampling Interval 4. On Demand Uplink
21	Parameters to be read with LoRaWAN (Periodic & On Demand Uplink)	1. Meter ID 2. KWH 3. Relay status 4. Frequency 5. Power Factor 6. Voltage R 7. Voltage Y 8. Voltage B

		9. Current R 10. Current Y 11. Current B
22	Compliance to EMC & EMI	As per is 13779:1999 with latest amendments
23	Communication Details	• LoRaWAN Communication • Band: IN865 • Frequency: 865MHz to 867MHz • Activation Method: OTAA • Support Class: 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