ES-Meter

Single Phase Energy Limiting Meter

FEATURES

- Limits the daily energy consumption
- Standalone, operates independently with no remote host or complicated software needed
- Built-in real-time clock and load control relay
- Digital keypad for setting maximum load, energy allocation and reset time
- LCD, pulse indicator, event alarm indicator and buzzer
- Overload trip with automatic 30-second restart
- Measures kWh, voltage, current, active power and frequency

APPLICATIONS

- Suitable for tenant metering in solar or wind power plants
- Rugged and built for use in remote villages or isolated islands
- Useful for equipment requiring subsidized billing

REMOTE MONITORING

Optional connection to a central monitoring and control system:

- RS485
- WiFi
- GSM 4G
- Ethernet



OVERVIEW

The ES-Meter series Limiter is a single phase two wire energy limiting meter that prevents overuse of electricity by limiting daily energy consumption. It is equipped with a real time clock and an in-built load control relay, and accurately measures power consumption. When the daily allocation is used up, the load power is cut off.

Setting

The meter has a digital keypad for parameter settings. With it you can set the maximum load, limit the maximum power consumption and set the time at which the daily allocation is reset. The meter works independently, so no remote host or complicated software is required.

Operation

The keypad lets the user set the time of day at which the new allocation will begin. When the designated time is reached, the new allocation takes effect. When the daily allocation is fully used, the load power is cut off. If any allocation is left at the end of the day, it is carried forward to the next day's allocation, up to the maximum amount that has been set.

Overload Protection

A power load threshold and overload trip can be programmed. If the meter is overloaded, it automatically shuts off for 30 seconds before resuming. If it is overloaded 10 consecutive times, the user must manually close the relay using the built-in keypad.

Measurement

Total active energy (kWh), voltage (V), L line current (A), L line active power (W) and grid frequency (Hz).

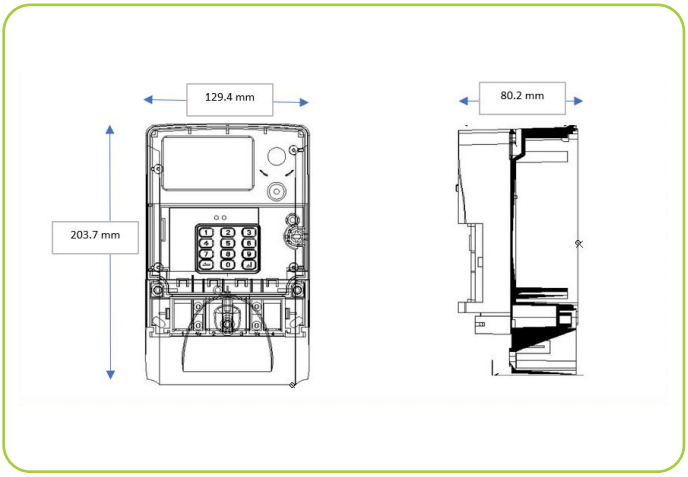
Application

Ideal for applications where the amount of energy is limited or rationed per day.

ES-Meter

Phase/Wire	• Single phase two wires
Accuracy	• 1%
Meter Constant	• 1600 imp/kWh
Maximum Current	• 60A
Frequency	• 50Hz / 60Hz
Voltage Circuit Power Consumption	• 1W / ≤1.2VA
Current Circuit Consumption	• ≤0.2VA
Display	• LCD
Indicators	• Pulse indicator, event alarm indicator, buzzer, load relay
Keypad	• Built-in keypad for parameter setting
Ingress Protection	• IP51
Operating Temperature	• -25°C to +55°C
Remote Network (Optional)	• RS485 / WiFi / GSM 4G / Ethernet

DIMENSIONS



ORDER CODE

Order Code	Description
ES-Meter	Energy Limiting Meter