

# LoRa enabled Smart Energy Meter - Single Phase

## Datasheet

**Document Version:**

**SSTPL/ HW/ Smart Energy Meter /1.0**

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## 1. Brief Description

This Energy Meter is used for measuring this energy utilities by the electric load. The energy is the total power consumed and utilized by the load at a particular interval of time. It is used in Industrial and Domestic AC Circuit for measuring the Power Consumption.

We (SSTPL) attached our LoRa device with meter to make it Smart. Our device read and store all the units of Energy Meter in a single click through Application or Web application. In a single click device will display the data like Voltage, Current, Frequency, Power Factor, KVAR, Reactive Power, Active Energy etc on your phone or computer's screen. That is why we call it Smart Energy Meter. it can also disconnect the power supply in case of not payment of electricity bill.

### 1.1 Features

- Smart LoRa enabled Meter
- EB/DG reading.
- Tariff recharge.
- Overload detection
- Relay ON/OFF.

### 1.2 Applications

- Measure electric power.
- Measure the electricity consumption for domestic areas like homes, shops etc
- Prepaid Metering
- Remote Control

## 2. Image of LoRa enabled Energy Meter



## 3. Specifications

### 3.1 Specifications of Meter

Current range	10-60A
Voltage rating	240V
Meter constant	3200imp/KWh
Class	1
Type	A.C.1 phase ,2wire
Compliance	IS13779
Push button	On top (signal)
Temperature	27°c+2° c
Frequency	50Hz

### 3.2 Specification of LoRa module

Frequency range	865 to 867 MHz
Modulation	LoRa® Spread-Spectrum
RF output power	Up to 20 dBm
Receiver sensitivity	-137 dBm (SF 12; SB 125 kHz, CR 4/6)
RF data rate	0.24 to 5 kbps
RF range	up to 5000 m (line of sight)

## 5. Important Notice

### 5.1 Disclaimer

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