

Single Phase Electronic kWh Meter



Features

- Single phase
- Single or Multi Tarif
- Class 1.0 accuracy
- Low starting current
- Permanent display
- Pulse output
- Modbus RTU
- IEC61036 & IEC60512
- Protection IP20

Application

- Tenant office building
- Food concessions campus
- Entertainment facilities
- Shopping mall
- Airport
- Utility metering
- Commercial building

Overview

The HEM single phase electronic type kWh meter is the latest development revenue meter. The meter has been designed to meet the modern standard of electrical utilities. High metering security is designed to against illegal abstraction and fraud.

Protection from mechanical, magnetic or electrical interference is built into the products as an anti-fraud, the meter runs forward regardless of the energy direction.

The high accuracy, wide operating range and very low starting current makes it the ideal choice. The SMT (Surface Mount Technology) design and construction guarantee a long and service free life.

Beside HEM100 is well protected against tropical conditions by means of a gasket seal located between the base and terminal cover. The energy register is of the well-proven digital type of LCD, incorporating 7 digits. HEM100 loop displays Time, Date, Total kWh, Peak, Flat, Valley, Voltage and Current. Display interval is 4 second.

Automatic meter reading function is provided by it is electronic pulse output or through Modbus RTU protocol port connections. The register value is always maintained with meter's display.

Specification

Voltage Rating :

220/380VAC.50 or 60Hz

Current Rating :

1.5(6A)

5 (20A)

10(40A)

20(80A)

Accuracy :

1.0 Class

Standard Refer :

IEC6136, IEC60512

Surge Test :

6KV, 1.2/50micro sec.

Insulation :

2.5KVms, 1 min. Between voltage inputs & meter

FCC Test :

10V/m. 80-1000MHz

Over Voltage :

120% of rated voltage

Power Consumption :

<4VA/phase

Expected Life :

>50,000 hours

Display :

7 digits of LCD display, loop different data; Time, Date, Total Kwh, Peak, Flat, Valley, Voltage and Current.

Starting Current :

20mA

Resolution :

0.1kWh

Pulse Output :

6A:6400; 20A:1600; 40A:800; 80A:400pulse/kWh

Phase Lost Detection :

Three LED indicate the status of each phase

Temperature :

-20 to 60deg.C < = 95%

Communication :

Modbus RTU,
Baudrate 9600bps

Mounting type :

35mm Surface DIN rail mounting

Size :

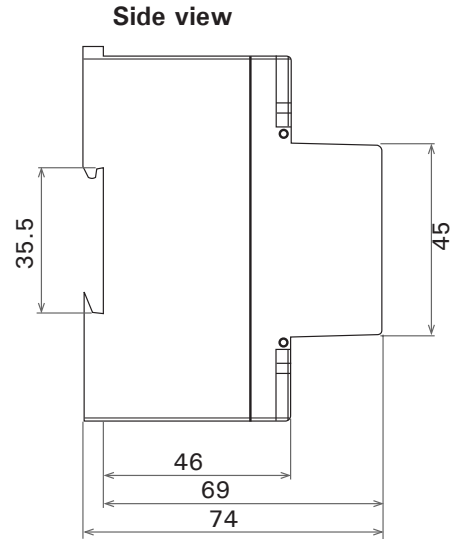
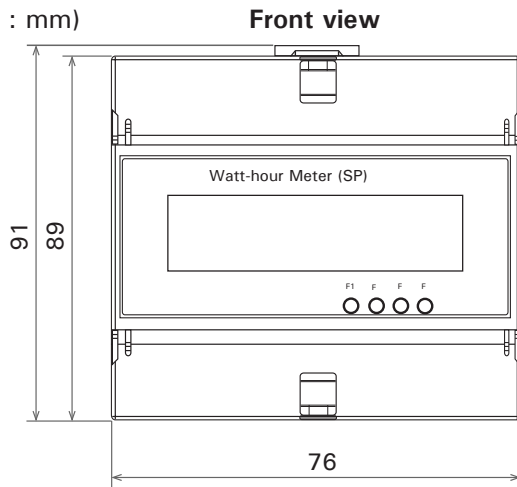
76(H)x89(W)x74(D)mm

Weight :

360g

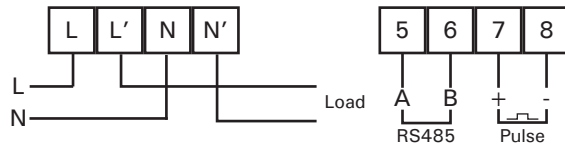
Dimension

(Unit : mm)

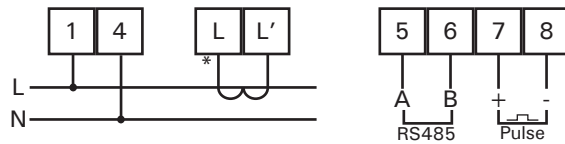


Wiring Diagram

single phase without CT



single phase with CT



Ordering Information

