kWh Meter
Single Phase
## IC Card Prepaid Energy Meter

EDM

Overview

EDM Metering , supply Prepaid watt-hour meter EDM MD200-PC Single-phase Electronic   Prepayment Watt-hour Meter is a new designed IC card prepaid meter originated from excellent single phase electronic watt-hour meter, which has many functions such as power metering, load control and users' information management. It's an ideal product to reform the power system, commercialize energy, solve charge problems and adjust the load state.

Features

- Surface mounting or hang type
- One card only for one watt-hour meter
- Displayed Parameters : kWh, Voltage, Current, Frequency, Power Factor, Active Power
- Automatic power - cutting off to   warn   users to   purchase   power
- IC Card is with data encryption and anti-fake protection;
- When the residual electric quantity reaches the warning value, the kWh meter LED Alarm indicator will flickering, and would switch off automatically after a certain period of time delay;
- When the residual electric quantity in kWh meter remains zero, th kWh meter would trip automatically, and cut off the power supply;
- Programmable load limit and low credit warning;

## Dimensions
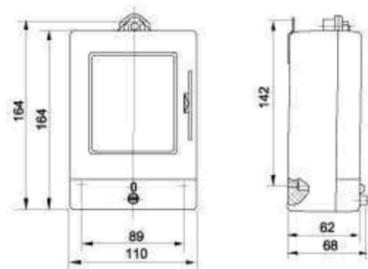
180.2mm (H) x 120mm (W) x 55.7mm (D)

Wiring
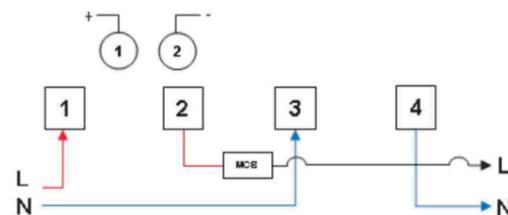
Parameters

Nominal Voltage	220V
Working Voltage Range	70%~120%Un
Nominal Frequency	50-60Hz
Basic Current (Ib)	10A
Maximum Current (Imax)	40A
Starting Current (Ist)	0.04A
Active Energy Constant	1600imp/kWh
Measurement Accuracy	Class 1.0
Power Consumption in Voltage Circuit	<2W or <10VA
Power Consumption in Current Circuit	<4VA
Operation Temperature Range	-25℃ -70℃
Storage Temperature Range	-40℃ -85℃
AC Insulation Strength	4kV at 50Hz during 1min
Impulse voltage 1.2/50us mains connection	8kV
Electrostatic Discharges	Contact discharge: 8kV; Air discharge: 16kV
Electromagnetic RF Field	27MHz-500MHz: 10V/m; 100KHz-1GHz: 30V/m
Fast transient burst test	4kV
Protection	Class II

System Operation:
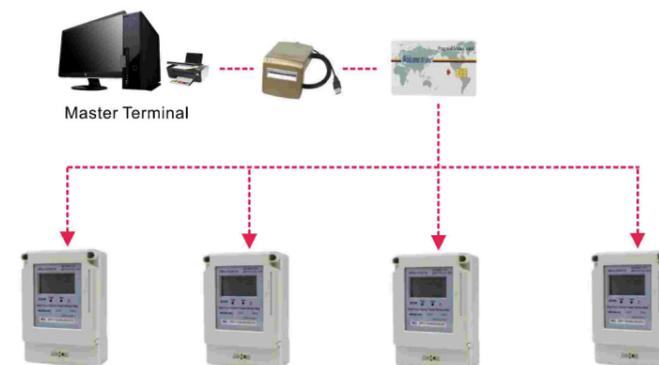
Master Terminal

1. New Customer Registration
for new customer, the meter details and customer details are entered into the regional Master Terminal.
2. Purchasing Credit
After complete registration at District Office, customer has to purchase credit and the credit value and metering data will be stored into smart card.
3. Meter Initialisation
The customer insert the card into the meter, all information will be transferred to the meter automatically and meter is initialised.
4. Metering Data Updating
The meter writes the metering data into smart card every time when customer charges the card into meter. When customer purchase credit from the district office, all the data will be updated to the system as well.
5. Data Storange
The Server is care of the system which acts as a storage to keep all record prepaid meter customers.

a Better Way