

ELEKTROMED

EXCELLENCE IN METERING

SMART
CARD
MULTI
METERING



It is a problem for Housing & Shopping Complex Administrations to get a complete payment in time for electricity, water and gas bills of users. The best solution for that problem is to use pre-paid metering system

HOUSING & SHOPPING COMPLEX PRE-PAID ENERGY DISTRIBUTION SYSTEM

consists of

- Electricity, water and gas meters
- Smart Card
- POS (Server and/or Client PC)
- Portable Terminal (Optional)



Electronic Measurement Systems: A stable system that realizes electricity, water and gas amount measurement, enable and disable operations in pre-paid credit system

Smart Card: Chip embedded plastic card enables credit loading in several times

POS: PC, card reader and software using in sales operations

Portable Terminal: Custom design hand equipment, using cards of service operations cards



ADVANTAGES OF PRE-PAID SYSTEM

- Subscribers pay money as much as their consumption.
- Authority has no problem in payment matter.
- With using portable terminal, time saving is provided in credit buying and payback operations
- Consumption reports can be prepared by using database.
- Reports can be prepared based on each subscriber.
- Subscribers have fixed price guarantee.
- No bill payment and bill following are needed by subscriber.

The most effective method of pre-paid system is to use a smart card for electricity, water and gas credit loading. By mean, subscriber has only one smart card for his/her all meters.

Electricity, water and gas meters can be used with a single smart card.

MATTERS DETERMINED STRUCTURE OF DISTRIBUTION SYSTEM

- Number of user
- Maximum demand
- Installation Project
- Usage Conditions
- Required basic properties of meters



PRE-PAID SYSTEM ALTERNATIVES

A1) ECO Solution

- When only payment problem solving is requested,
 - When information from meter is not needed,
 - When PC and local area network construction are not requested,
- Eco solution can be selected.

Data Transport: Disposable token card

Credit Sales: No PC. Pre-prepared 50.....500 credits capacity loading cards. Shops and buffets sell these cards.

Local Network: No

Cost: Low

A2) MEMO Solution

- When information from meter is needed,
 - When consumption reporting is requested,
 - When off-line system control is required,
- Memo solution can be selected.

Data Transport: Secure-Memory or microprocessor card

Credit Sales: In POS(Point of Sale) of Administration office

Local Network: Optional

Cost: Medium



POS SYSTEM PROPERTIES

- PC Capacity
- Reporting
- Integration with Current Accounting software programs
- Client using in local network together with Server

A3) ON-LINE Solution

- When On-line system control is required,
 - When information from meter is needed,
 - When consumption reporting is requested,
- On-line solution can be selected.

Data Transport: RS485, PLC, RF, PSTN, GPS or GPRS modem

Credit Sales: On-line in web side or by card

Local Network: Obligatory

Cost: High



REFERENCES

World Trade Center-İstanbul
İstanbul Cevahir Shopping and Entertaining Centre -İstanbul
Kuyumcukent Jewellery C.O. (KİAŞ) -İstanbul
Capacity Shopping Mall -İstanbul
CEPA Alışveriş Merkezi -Ankara
Town Center Shopping Mall -İstanbul
Milenium Outlet Shopping Mall
Zeyland Shopping Mall -Afyon
Kasaba Houses(Yapı Kredi-Koray)
Diyarbakır K.C. Polat Village
Flamingo Holiday Hoising-Mersin
Asya Termal Holiday Village
Antares Houses- Ankara
Çamlıbel Villas-Gaziantep
Başkent Industrial Zone



