OMNIPOWER®
STS prepayment meter

kamstrup

Revenue protection made easy

- Enhanced demand side management
- More energy-aware consumers
- Based on globally recognized open standard
- Full flexibility - online and offline

STS ASSOCIATION

Why smart prepayment?
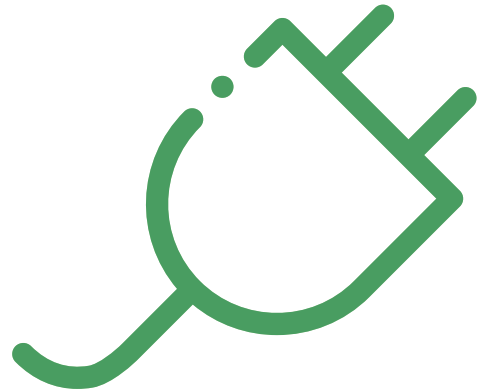
Revenue protection for the utility

Smart prepayment eliminates both monetary losses and the time spent handling late or missing payments.

Demand side management

Combined with price incentives, smart prepayment can motivate consumers to reduce energy use during peak hours.

The consumer in the driver's seat

Smart prepayment increases energy awareness, eliminates inaccurate billing and lets the consumer keep track of consumption.

Intelligent revenue protection based on proven technology

The OMNIPOWER® STS prepayment solution is all about securing the utility's income. It keeps track of the consumer's credit balance and ensures that no power consumption can occur without having been paid for in advance.

Based on the globally recognized STS standard, it securely handles the process of adding credit to the balance and ensures proper validation, whether STS tokens are added on-site by the consumer or remotely by the utility.

With its ability to handle a variety of tariff structures, the OMNIPOWER® STS prepayment solution can serve as vehicle for increased energy awareness, energy savings and contribute to achieving a more evenly distributed load.

Prepayment for any need

The OMNIPOWER® STS prepayment solution is available as an offline solution (Basic) or a backend-integrated solution (Extended) with full AMR and remote access in addition to the offline functionality. Both are based on the proven technology of the OMNIPOWER® electricity meter, which offers high precision, low own consumption and a highly stable UC-3 breaker, crucial to reaping the benefits of a prepayment solution.

Both single phase and three phase OMNIPOWER® electricity meters are certified STS compliant.

The Standard Transfer Specification (STS)

- The only globally recognized open standard for prepayment systems

- Ensures interoperability between components from different suppliers of prepayment systems

- Kamstrup certification numbers:
  STS-472 (OMNIPOWER® single phase)
  STS-505 (OMNIPOWER® three phase)

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Online prepayment solution with offline fallback option secures 100% availability

After a successful pilot, Electricity Company of Ghana will install 27,000 OMNIPOWER® meters with the extended STS prepayment solution.

Overview basic and extended solution

Feature/component	Basic solution (offline)	Extended solution (online)
OMNIPOWER® smart meter	Yes	Yes
Keypad with display	Yes	Yes
Notification for consumer when balance is low, zero or negative	Yes	Yes
Current balance in kWh on keypad display	Yes	Yes
Current tariff and balance in currency on keypad display	Yes	Yes
Tamper detection	Yes	Yes
Support for exception time	Set locally by area	Yes
Support for Time of Use or inclining block tariffs	Set locally by area	Remotely set
Adding STS tokens	On site only	Remotely or on site
Switch between post-consumption billing and STS prepayment	Locally	Remotely
Remote reading of remaining credit	No	Yes
Consumer communication (tariff changes, load shedding, etc). on display	No	Yes

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Think forward