



Our PaySmart® Solution for Heat Networks puts Residents in Control -

**Removing the burden of
building up unpaid bills
or debt.**

Prepayment Solution for Heat Networks

The Evinox PaySmart® solution puts residents in control of their own energy bills by allowing them to pay for energy as they consume it, removing any possibility of building up unpaid bills or debt.

This innovative system also takes away the burden of collecting money by the Managing Agent or Housing Association and provides residents with flexibility and choice over how they pay for their heating and hot water.

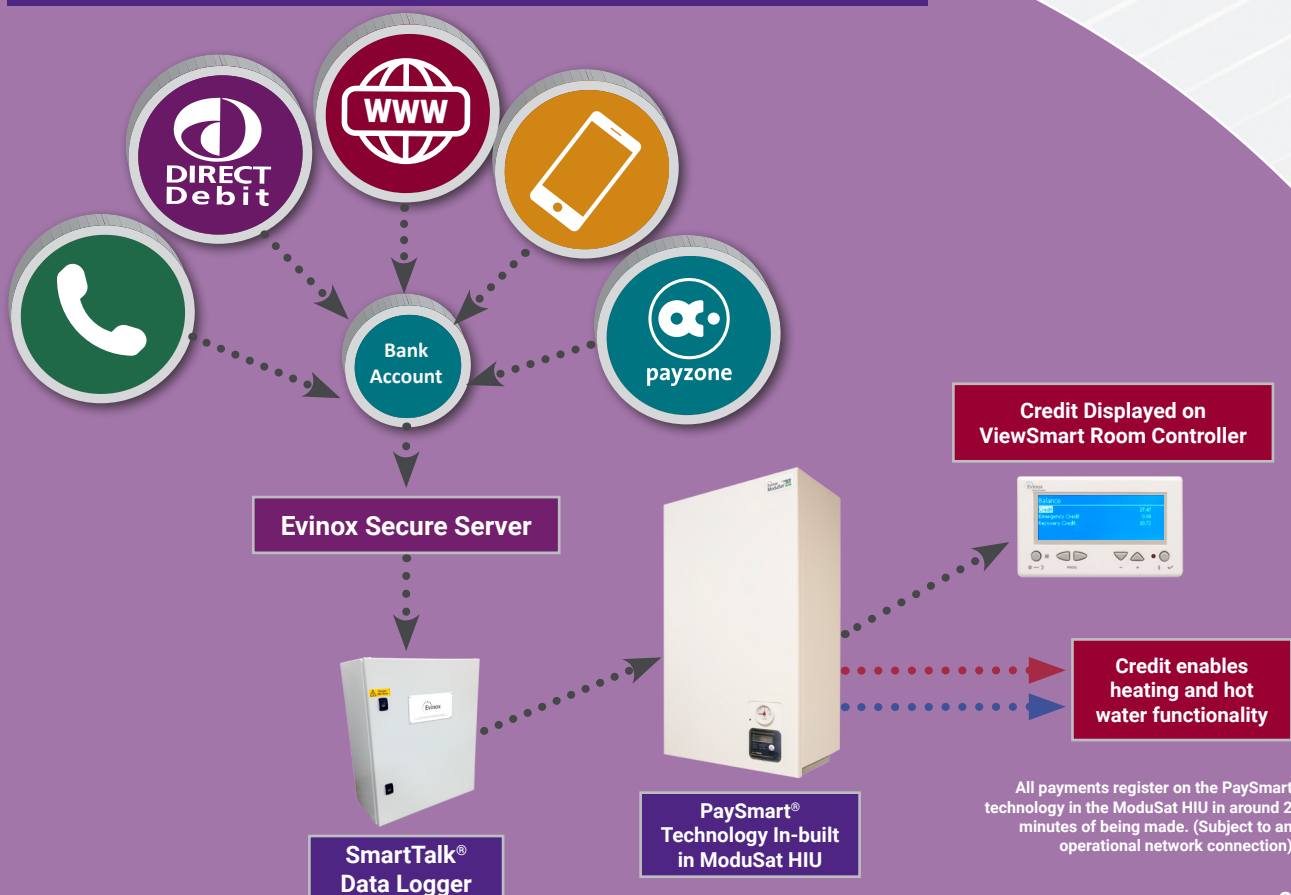
The Evinox ModuSat® heat interface unit features in-built PaySmart® technology, which is uniquely identified to a particular dwelling. This system includes a number of consumer friendly features and security provisions to prevent and detect unauthorised interference.

Unlike traditional prepayment systems, the process of adding energy credit to the ModuSat® Unit is automated so there is no requirement for the resident to insert a card into the unit for activation.

PaySmart® Features & Benefits

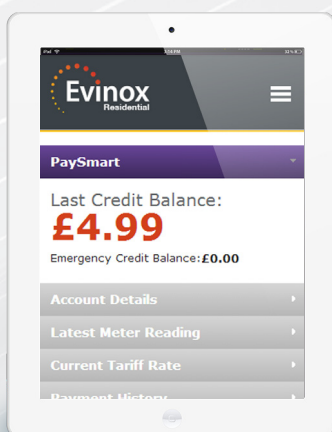
- Debt free billing solution – Eliminates debt risk.
- Flexible and convenient payment methods.
- Competitive charges due to less administration and minimal debt management service being required.
- Total transparency of tariff and charges.
- Certainty of payments.
- Easy to install and manage.
- Highly accurate.
- No requirement for retrofit of additional components on installed units as PaySmart® can be remotely activated without gaining access to the property.
- Heating and hot water only provided when credit available.
- Data security.
- Schemes can be operated with part PaySmart® and part Credit Billing to provide flexibility.
- Building owner / operator has peace of mind that the communal system is being managed efficiently without ongoing increasing costs.

Residents can purchase their energy using the convenient payment methods below -



Residents can access their account using our website or web app, 24hrs a day, where they can access The following Information and services:

- Current Balance
- Meter Readings
- Make a Payment for Energy Using our Simple and Secure Online Payment Facility
- Payment History
- Current Tariff Rate
- Payzone Card Activation
- Online Direct Debit sign up
- Download User Guides
- Fair Tariff Policy
- Complaint Handling Policy



Residents can access their account using our web app on any web enabled device. The web app can be downloaded from our website - www.evinoxresidential.co.uk



Credit information is displayed on the ViewSmart Room Controller installed in the home.

Website & Web App Login Area - Screen Shots

Source	Date	Amount	Status
Web	10/07/14	30.00	Uploaded
Web	15/08/14	35.00	Uploaded
Payzone	12/09/14	35.00	Uploaded
Web	20/10/14	40.00	Uploaded
Payzone	12/11/14	35.00	Uploaded
Web	19/11/14	10.00	Cancelled

Direct Debit & Standing Order Payments

If residents opt to pay via monthly Direct debit, payments will automatically add energy units purchased to the PaySmart® system in the ModuSa®. The usage will be monitored and if the payment fails or is insufficient to cover the energy being used we will contact the resident to request a payment to bring the account into credit and to enable the energy to continue to be supplied. If a payment is not received and the unit runs out of credit (normally after exhausting an amount of emergency credit), the PaySmart® system will disable the ModuSat® unit until payment is made.

Technical Details

The ModuSat® Control Board

The Evinox ModuSat® control board works with TCP/IP (Transmission Control Protocol/Internet Protocol) and includes the PaySmart® pre-payment technology.

The benefit of using TCP/IP is that software installation and firmware configuration can be performed by remote access over the internet, which therefore removes the requirement for an engineer to attend the property.

The control board can store data concerning the amount of credit and will adjust this according to usage until such time as the credit runs out. At this point it will set the unit to an agreed default position giving either a reduced level of heat and hot water or complete shut off.

Integrated Energy Meter

Our ModuSat® ultrasonic meter is MID certified, with accuracy Class 2 (BS EN 1434), and has been designed for use in residential applications.

The meters employ the latest technology to guarantee high quality and outstanding long-term measurement stability. The sensor body is constructed from brass and has no moving parts, making it virtually maintenance-free. The meters feature high quality paired PT1000 temperature probes to ensure performance according to the EN 1434 standard, and can operate with water temperatures up to a max of 95°C and nominal pressure of 16 bar.



Our ModuSat® heat interface units feature an integrated MID certified energy meter as shown above.

PICV with Integrated Electronic Energy Control

Our ModuSat® heat interface units include, as standard, PICV's (Pressure Independent Control Valves) The PICV's enable the PaySmart® system to automatically disconnect the heating and hot water when there is insufficient credit, as they act as the energy shut-off valve.

This removes the requirement to fit any additional external shut-off valves and the associated cost and installation time.



The energy flow control function of the PICV, shown below, enables the PaySmart® system to automatically disconnect the heating and hot water when there is insufficient credit, acting as the energy shut-off valve.