**Flexible &
comprehensive
metering & billing**

mini bems

minipay

**The Enterprise
IoT platform
for heat networks**

www.minibems.com

Minipay is a credit and prepayment, metering and billing service for heat networks. Minipay makes it easy for residents to make payments and keep their heating on.

Flexible & comprehensive metering & billing

Minipay provides multiple payment methods through in-home Minibems Touch, mobile and online applications, meaning customer satisfaction is high and ongoing management is hassle-free for building operators. Minipay provides revenue assurance to network owners, with payment reconciliation and profit and loss accounting made easy.

Minipay features

Credit and prepayment billing services

Payment reconciliation and reporting

Remote heat meter fault identification

Real-time payment transacting

Revenue assurance for heat suppliers

Tariff advice for heat suppliers

Remote heating and hot water turn-off

Resident help desk for metering, billing and payment support

Emergency and friendly credit for residents

Family and friends access for vulnerable users

Smartphone app for billing and payments

Regulation compliant

minipay

Residents comfort

Minibems Touch
Via the in-home 5" colour touchscreen display, residents can access their billing system, control their heating and change system settings.

Minibems App
The Minibems App puts residents heating and billing system into their pockets, providing remote heating control and allowing them to manage energy payments.

Easy top-up
Residents can make payments via their phone, at a local retailer with cash or card and via standing order.

Friends & family access
Vulnerable users can provide access to friends and family who can check their system and make top-ups on their behalf.

Resident help desk
Our specialist customer service advisers are on hand to support residents with any heating, hot water, billing or payment enquiries.

Emergency & friendly credit
When in prepayment, residents are not shut-off outside of office hours and are also provided a small emergency balance in case they run out of credit temporarily.

Energy usage
Heat energy usage is reported to residents via their Touch, App and bills, over 7-day and 12-month formats. The usage is divided into heating and hot water usage so that they can see what proportion of heat is being used where.

Payment methods
Minibems operates a real-time payments system whereby payments made are applied to the Minibems Touch and Connect instantly.

Pingit payments	
ePay cash or card payments	
Standing order	

Payment methods are dependent on selected metering and billing package.

Residents bill

minibems app

Minibems App works in conjunction with Minibems Touch

Available for Apple iOS and Android

On-screen consumption, savings and notifications

Transaction history

Simple installation and remote configuration

End-to-end encryption security

Available on

App Store   Google Play

minibems touch

5" capacitive touchscreen colour LCD display

Brightness adjustment

Low-power consumption

Simple installation, set-up and configuration

M-bus interface for up to eight meters

Integrated room temperature sensor

Relay for heating and hot water shut-off

Secure over-the-air (OTA) firmware updates

Switch between credit and prepayment billing

Wall mounts into standard pattress box

Minipay services

Heat network revenue, profit & loss and cash management made easy

Prepayment billing

The Minibems prepayment system continuously adjusts the residents balance according to heat usage. It will then automatically shut-off the supply if there is no balance and their emergency credit has also been consumed.

Credit billing

Minibems generates consumer bills for the heat or cold water used and sends these to residents on a monthly or quarterly basis. Minibems manages payment reminders and collects debt up to an agreed limit. Residents can be moved into prepayment billing at no extra cost.

Real-time payment system

All energy payments are processed in real-time onto the residents system and are immediately visible through the Minibems App, Touch and Minipay dashboard, enabling fast payment validation and customer support.

Payment reconciliation & reporting

Minibems provides monthly and quarterly reports which reconcile all payments received against property heat consumption, highlight any debt positions and summarise payment, heat consumption and cost data.

Revenue assurance

Minibems ensures debt is carefully managed through the Minipay dashboard which highlights any significant debt positions, automates debt reminders, reports total debt and flags any systems breaching debt limits.

Heat meter fault identification

Minipay checks heat meter operation and reports a fault if sensors are crossed or where heat meter data is not congruent with heating and hot water usage. This is automatically alerted to the Minipay dashboard for further investigation and resolution.

Profit & loss accounting

Where gas and fuel costs are available, Minipay is able to provide a full profit & loss account for the heat network, with a full summary of direct costs, revenues and margins[*].

Tariff advice & updates

Minibems continuously reviews the heat network efficiency and can provide advice to heat suppliers on the right heat tariff and standing charges for residents in order to cover heat network running costs.

Regulatory compliance

Minibems ensures your developments meet with the requirements of the metering and billing regulations, as enforced by the Department for BEIS and Safety & Standards through Heat Network (Metering and Billing) Regulations 2014. Minibems network performance is in-line with ADE/CIBSE Heat Networks Code of Practice 2020.

Office for Product
Safety & Standards

[*]Feature coming 2021.

Open access connectivity

Whether you require credit billing or a prepayment system, for new build or an existing development, our technology can connect using standard communication protocols.

Minibems controllers connect using the following communication protocols:

M-Bus	M-Bus
M-Bus wireless	M-Bus wireless
4G wireless	4G
Modbus	Modbus
BACnet	ASHRAE BACnet
Ethernet IP	

Metering & billing kit

minibems connect   **minibems touch**

Heat supply valve for remote shut-off   **Heat meter**

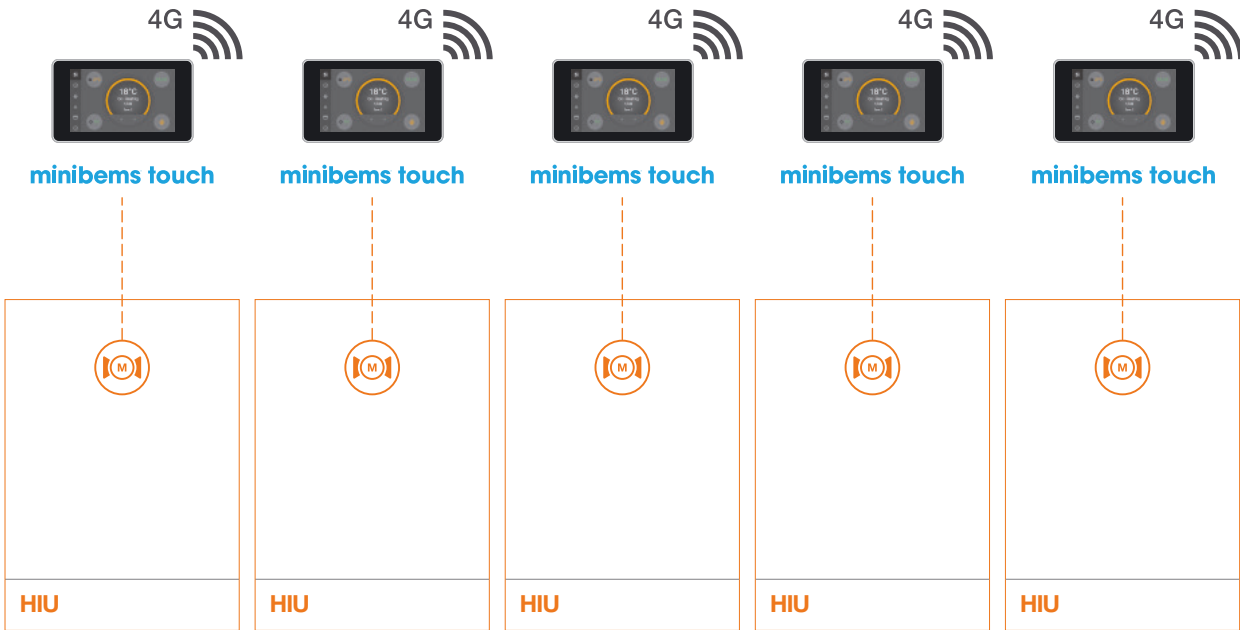**Point of entry bulk meter**   **Cold water meter**

Flexible deployment

Wireless 4G network

4G

Credit and prepayment billing services

Automatically roams on any available mobile network

Easy to deploy – no communication cabling

Flexibility to switch remotely between credit and prepayment at any time

Security built in from chip to cloud to mitigate device vulnerabilities

On-chip Arm Platform Security Architecture (PSA), TrustZone

Secure over-the-air (OTA) firmware updates

minibems cloud

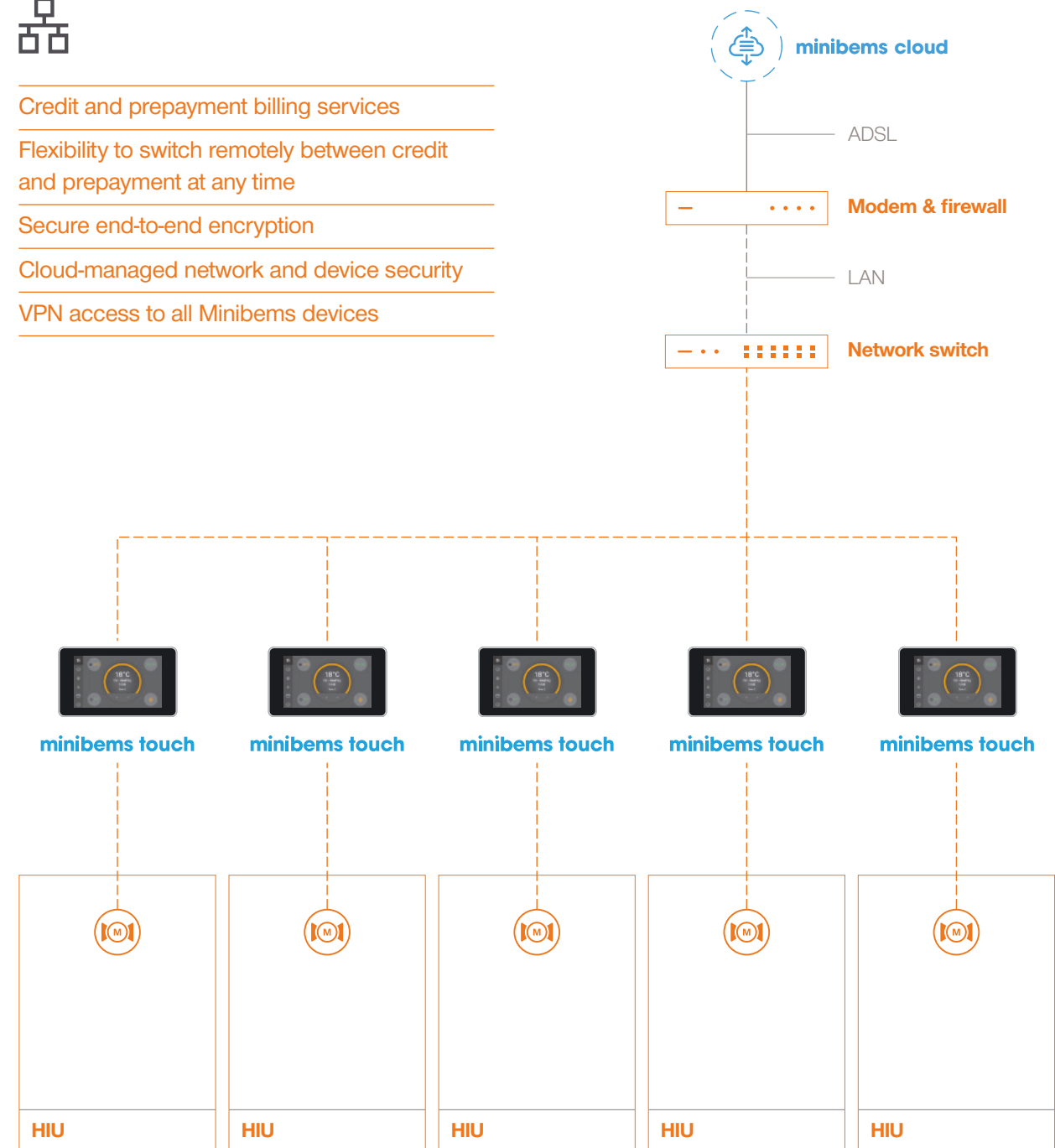| 4G	4G	4G	4G	4G
minibems touch	minibems touch	minibems touch	minibems touch	minibems touch
HIU	HIU	HIU	HIU	HIU

Flexible deployment

Ethernet LAN network

- Credit and prepayment billing services
- Flexibility to switch remotely between credit and prepayment at any time
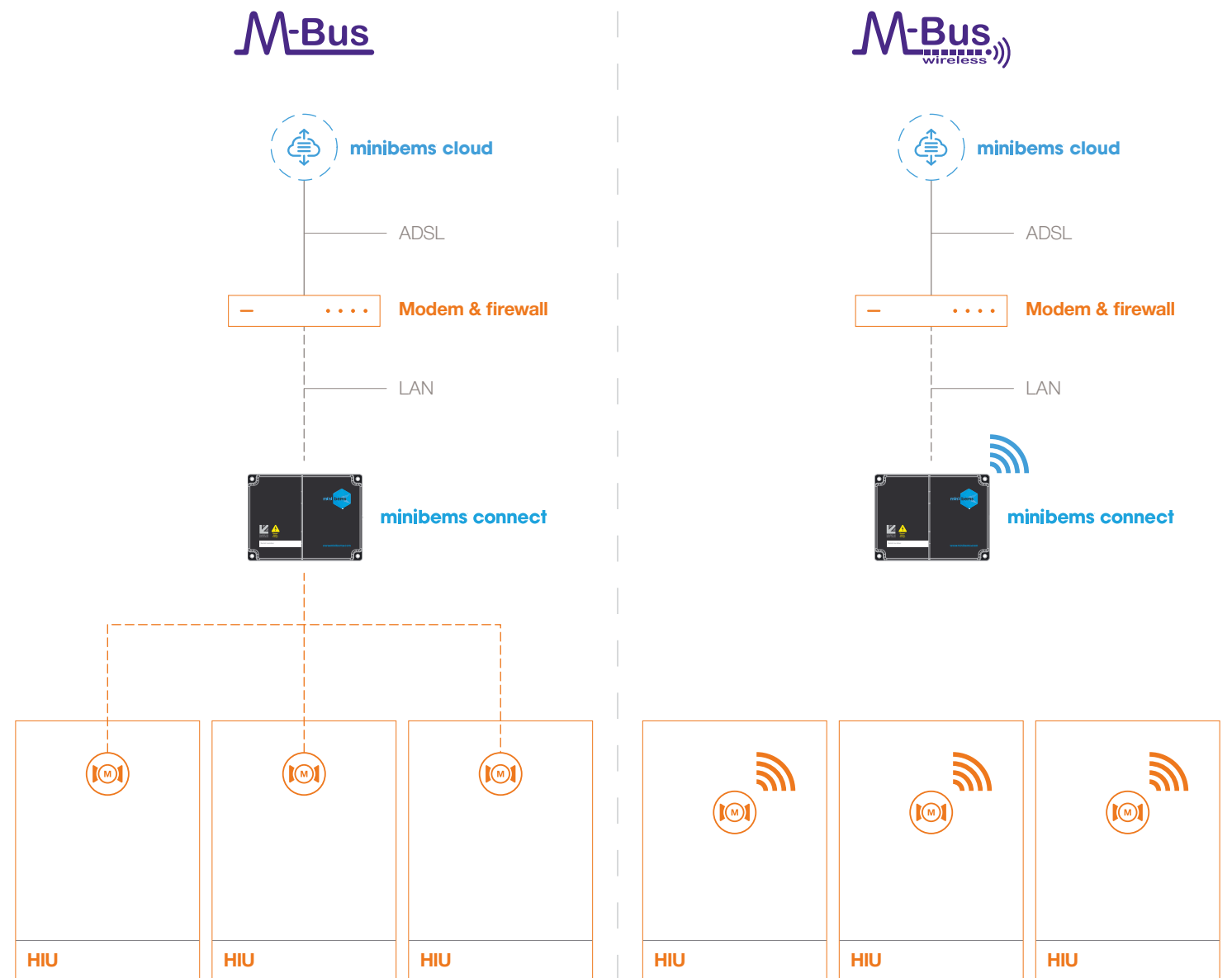- Secure end-to-end encryption
- Cloud-managed network and device security
- VPN access to all Minibems devices

minibems cloud

ADSL

Modem & firewall

LAN

Network switch

minibems touch   minibems touch   minibems touch   minibems touch   minibems touch

HIU   HIU   HIU   HIU   HIU

Wired & Wireless M-Bus networks

- Credit billing services
- Cost effective & simple solution

M-Bus

minibems cloud

ADSL

Modem & firewall

LAN

minibems connect

HIU   HIU   HIU

M-Bus wireless

minibems cloud

ADSL

Modem & firewall

LAN

minibems connect

HIU   HIU   HIU

Flexible & comprehensive metering & billing

The Enterprise IoT platform for heat networks

Dynamically controlling flow rates

Leveraging data science to improve heat network performance

Providing in-depth and up-to-the minute reporting

Offering 24/7 heating and hot water technical support and insight

Comprehensive metering and billing options

Easily integrated into new build and existing heat networks

Get in touch

Call 0800 520 0135
Email sales@minibems.com
Visit www.minibems.com

mini bems

minipay