



# IoT and AI



## District Heating digitised

You want to have everything in view and under control when performing network monitoring? At any time and any place? Direct, reliable and manufacture-independent? In real time? Our solution for you:

**SYSTEM BRANDES® and HEATCONN**



**BRANDES**

... for safety today and beyond

# IoT Solutions

## District heating for today's world

### Simple. Efficient. Sustainable.

The entire network in view. Data exchange and retrieval in real time, changes to systems and equipment online. Direct and simple, at any time and any place.



### Cost savings

Efficient and budget-friendly through digital visualisation. Cost savings of up to 25 % through the elimination of inspection tours, among other things.



### Reduction of CO<sub>2</sub> emissions

More sustainability, less CO<sub>2</sub>. Reduction of emissions thanks to intelligent control and feed-in.



### End-to-end solution

Seamless control of the district heating network, intelligent data evaluation and reports – all from a single source.



### Quick installation

Effortlessly integrated through simple linking with the desired sensors and subsequent connection with the web application.



### M-Bus meters

Reliable M-Bus meters and secure transmission of sensor data.



### Alarm function

Instant digital detection and reporting of alarms.



### Intelligent data evaluation

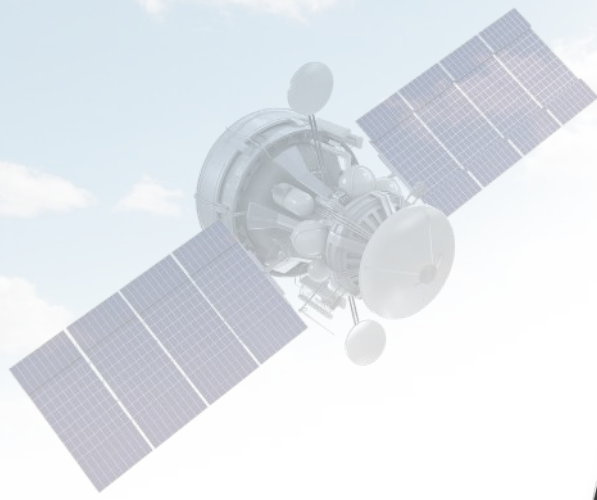
Responsive user interface for optimal overview and data access via desktop and tablet. Rapid response to alarms and recommendations for action.



### What is the Internet of Things?

The Internet of Things (IoT for short) is a collective term for technologies of a global information society infrastructure that enables physical and virtual objects to be networked and to work together through information and communication technologies.

(Source: Wikipedia)



**With its individual design, the HEATCONN platform provides an industry-specific solution that is intuitive and straightforward to operate.**

Incorporating **state-of-the-art technology**, it offers users optimal tracking and monitoring of their devices and sensors. The devices brought online or the connected sensors are monitored and visualised seamlessly and in real time.

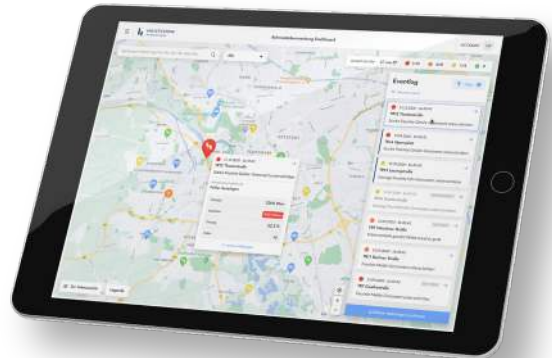
The starting point of the HEATCONN platform is the dashboard, where all important information is displayed. Thanks to the optimal page layout, users get a direct overview of the entire system. Through the use of filters, the information displayed can be customised to suit the users' preferences.

Another part of the HEATCONN platform is the **monitoring of district heating meters**. The district heating meters can be read and made available centrally on the platform. Data processing by means of M-Bus is available as an option via a gateway. Furthermore, feed-in meters can be integrated. This provides users with a **transparent representation** of their water losses as well as an overview of the correlation between the water losses and the measurement results of the devices used.

There are also additional functions in the application areas Analysis, Report and Alarm. These functions simplify and speed up monitoring, verification and also the finding of solutions.

The HEATCONN platform is distributed using a licence model exclusively by BRANDES. Users purchase one software licence per device that is to be monitored online. This licence is valid for a contractually agreed term. Licence fees are calculated based on the number of devices and for each user individually.

**BRANDES solutions guarantee modern seamless security in network operation.**



## Your benefits at a glance:

- maximum network transparency
- cost savings of up to 25%
- reduction of CO<sup>2</sup> emissions
- network information in real time
- digital detection of heat losses
- intelligent data evaluation
- automated reports
- quick set-up, simple integration
- user-friendly handling
- reliable alarm overview
- precise adaptations in the system conveniently via app
- manufacturer-independent
- end-to-end solution from a single source
- extensible platform
- reduce employee workload

**The new generation – learn more!**



**YOUR SAFETY:**

# INNOVATIVE KNOW-HOW AND EXTENSIVE EXPERIENCE

## **The mission: Safeguarding your investment**

- Pipe systems are repeatedly exposed to high levels of stress due to „hot and cold cycles“.
- To detect damage early on and thus avoid major and expensive repairs, the pipelines should be permanently and automatically monitored. Thanks to technological advances, accurate localisation is possible at any time and from anywhere using BS-Heatconn.

## **Solution: BRANDES**

- market leader in high-quality systems for early moisture detection
- largest system-independent and neutral provider
- highest reliability and product quality with the greatest possible technical compatibility
- investment of over 6% of annual turnover in research and development

## **BRANDES offers the complete service cycle:**

- conceptualisation, consulting and planning through to construction monitoring
- production, fabrication and installation of the equipment
- training and analysis as well as documentation of the systems and routes
- system maintenance and monitoring, software updates and telephone support

## **References and results**

- many satisfied existing customers for several decades
- BRANDES develops technology for small and large networks and centralised and decentralised systems.
- BRANDES supplies energy providers and industrial companies in over 30 countries.
- numerous international patents and continuous innovations are the basis of the company's market success
- BRANDES has been certified according to ISO 9001 since 1995 and is now a prequalified company.

## **The IoT solution with HEATCONN:**

**Data exchange and data transmission – with or without cables. Remote retrieval, hosting and visual display of the measured values from your BRANDES monitoring system and its components, wherever you are.**

**Safeguard your investment. Protecting values – with the BRANDES SYSTEM®**



# BRANDES

... for safety today and beyond