

# Your right partner to develop in the District Heating market

Higher efficiency with modern system technology



# What is happening in the District Heating market?



Transformation of network to integrate all available heat sources and increase the share of sustainable energy (Ex: Waste-to-heat energy).



Public Funding

Increase of investments and large public fundings to decarbonize heating in Europe. DH networks now benefit from large subsidization in Europe.



Refurbishement of Existing Networks

Growing pressure to reduce CO<sup>2</sup> emission urging for the refurbishement of old inefficient DH networks in multiple countries. There is now a huge stock of networks with high fossile energy consumption to renew in Europe.



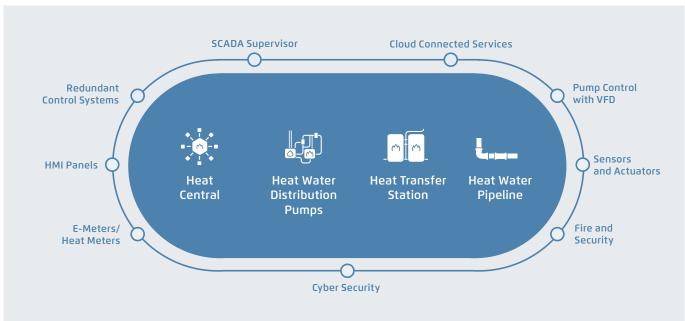
Digitalization, AI & Mac Learning

New technologies represent an opportunity to integrate all information across networks into single platform. It enables to anticipate heat requirement and to detect potential leakage for highest level of efficiency in heat production.

## We provide smart control systems

- We support transition to **4th Generation of District Heating system** to develop the use of sustainable energy.
- Our smart connected devices combined with sophisticated measurement systems and centralized management software allow to integrate entire district heating network into a single platform.
- Our solution opens the way to the highest level of energy effiency and extended controllability for networks owners.

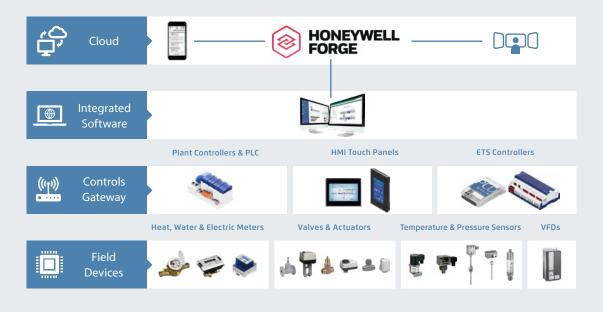
## Our uniqueness OneSystem Solution



- ▶ Optimize energy efficiency
- ▶ Improve controllability
- ▶ Implement centrally managed and digitalized network
- ▶ Integrate more accurate metering for invoicing purpose
- Renew network to integrate more buildings and transform heating sources
- Provide different needs for public and private owners (price, tender, negotiation)
- Benefit from implementation expertise and extended services

## Solution architecture

Open, scalable, end-to-end solutions



# Solutions that bring value to all involved parties



To investors, developers, building operator and managers

- Optimization of your operating costs
- Improvement of user comfort and network rialibility
- Precise invoicing thanks to accurate metering devices
- Design for long-term availability with life-cycle above 20 years



To specialist planners and consultans

- Experienced support during tenders
- Highest level of flexibility during and after implementation
- Adherence to deadlines and budgets despite uncertainty



To installators, system integrators and technical service providers

- Complete solution portfolio for the installation and commissioning of our automation technology
- Highly efficient engineering
- Reduction of wiring effort with our systems and control solutions
- High level of flexibility for retrofits and migration
- Complete network centralized and managed in a single software



# Transform your network into efficient and connected platforms

We are involved in refurbishment of existing networks to transform heat sources, reach higher levels of energy efficiency, and implement best-in class controlling infrastructure. We help the digitalization of entire networks through machine learning and AI technology predicting heat load with multiple data sources integration, thus reducing day-to-day energy consumption, and preventing energy leaks.

## Our portfolio advantages

A complete offering for all your needs

- Complete offering including controllers, field devices and software to benefit from an "all in one" solution
- Open and scalable software to deliver a centralized system for operation, monitoring and energy optimization
- Flexibility and programmability
- ▶ Single pain of glass with cloud-based services
- ▶ Multi-brand portfolio generating flexibility per region
- Experienced partners with valuable networks
- ► Cyber secure & modular PLC with redundancy and application libraries for easy integration into BMS systems

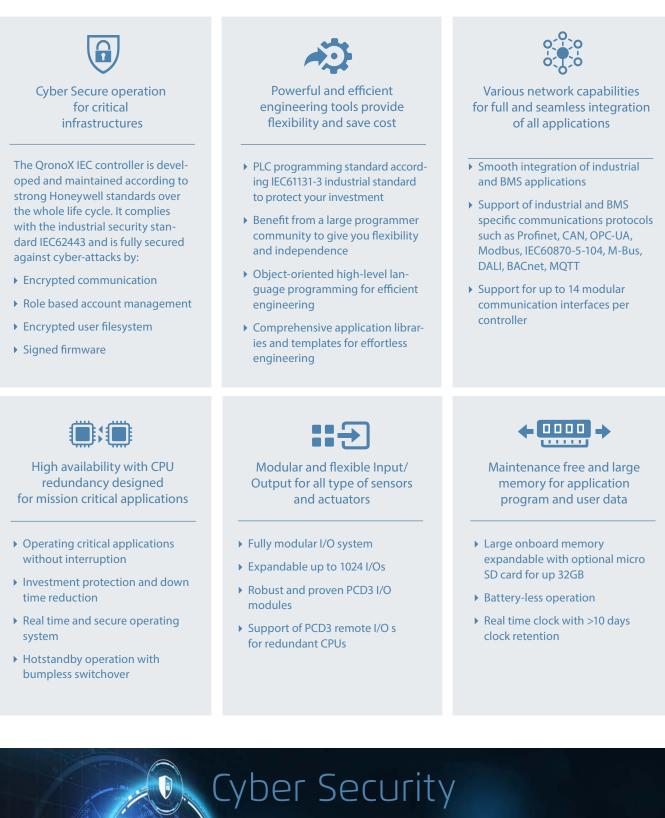


# QronoX IEC-Controller

## **Key features**

- 1 Fully cyber secure PLC according to IEC62443 standard in combination with redundant CPUs to keep your installation secure without interruption for entire operations.
- 2 Open interfaces and specific communication protocols on Controller and Supervisor level to support the easy integration into BMS systems.
- Single pane of glass with Supervisor and cloud based services for applications from HVAC, Power Supply, Energy Management, Fire & Security.







# Our promise Peace of mind and efficiency

### New or transformed network

Decarbonization has become more urgent than ever. The necessity to fight climate change led to transformations in many industrial sectors and the pace of public investments to decarbonize heating in Europe significantly increased. there is a real opportunity to reduce heating-related carbon dioxideemissions. District Heating will play a major role in coming years thanks to growing urbanisation, emerging cities, and the requirement to transforming heating systems in regions that have historically been extensively using coal as primary energy source.



## Next generation Supervisor



### Openness

Completely open system based on standard protocols

#### ▶ Efficiency

Seamless data migration – from all controllers to presentation layers

- Full Control Strong user rights management
- IT friendly Compatible and secure system

# Robust, compatible, and portable controls and field applications



Designed for long-term availability and innovations compatibility 18 to 25 year life-cycle!

# Case study

Large projects with experienced partners across Europe



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