

NB-IoT module for  
MULTICAL® 403/603/803 heat meters

**kamstrup**



## Take the easy road to automatic meter reading and full value of meter data

- Data collection via existing mobile network
- Plug-and-play installation with no network planning
- No unforeseen costs: 8 years of prepaid data included





## NB-IoT: Data collection without the hassle

**You cannot optimise what you do not measure. And with NB-IoT communication, the data you need for optimizing your distribution network is not only within reach – it's more easily accessible than ever.**

The NB-IoT communication module offers data collection without infrastructure responsibilities and investments. Using the existing mobile infrastructure for data communication, it allows utilities to automatically read data from MULTICAL® 403/603/803 heat meters with the READy remote reading system.

With an NB-IoT module in the meter, it communicates directly with READy via your local telco's NB-IoT network. This makes meter installation a lot more simple, as you

can simply deploy the meters when and where you like without extensive planning. It's virtually plug and play. And with 8 years of data transfer included in the meter price, the cost picture is crystal clear for the foreseeable future.

The NB-IoT communication module is also suitable for remote reading through other systems with the help of an implementation guide using standard protocols.

### Let your needs determine your choice of communication technology

Meter reading via point-to-point technologies such as NB-IoT is the ideal supplement to a network solution based on wireless M-Bus or linkIQ®. Many utilities will get the best coverage and lowest total cost of ownership by choosing a combined solution, deploying NB-IoT meters in hard-to-reach locations where network coverage falls short. Other utilities may have specific

data requirements that determine the choice of technology and for others again the key issue is to avoid infrastructure responsibilities altogether.

Either way, we'd be happy to use our decades of experience with smart metering solutions to guide you to the best solution for your needs.



## Remote reading made easy

Kamstrup's READY solution is made for simple and reliable remote reading of intelligent heat meters, providing you with accurate data for consumption billing.

But the benefits do not stop there. READY enables you to continuously monitor your distribution network. Info codes from the intelligent meters help you respond quickly to incidents such as leakages, faulty meter installations and other irregularities. Benefits include improved customer service towards end-users, less time spent on visiting installations and ultimately less revenue out the window. Along with READY you get access to a wide range of services, from day-to-day support to hosting and operation of your system.

## Use data to optimize your network

Your target is clear: To deliver high-quality district heating to your customers in the most sustainable way. So how about putting your meter data to use? Smart meters only become intelligent when you are able to convert the data they collect to actions in the real world.

Kamstrup Heat Intelligence visualises your meter data and pipe network in an intuitive map view that allows you to analyse your network and determine how to prioritize your efforts. The analytics tool provides an overview of parameters such as return temperatures, pressure and flow that can help utilities optimise bypasses, target asset management and ultimately reduce heat loss.

Stop digging in the dark. Start using real-time data for real-time decisions and unlock the black box of your distribution network.



## Digitalisation delivers!

In Assens, Denmark, digitalization delivers tangible results through remotely read meters, frequent data and targeted analysis.

Return temperature lowered by

6-8°C

Pipeline losses reduced by

12%

Annual heat production reduced by

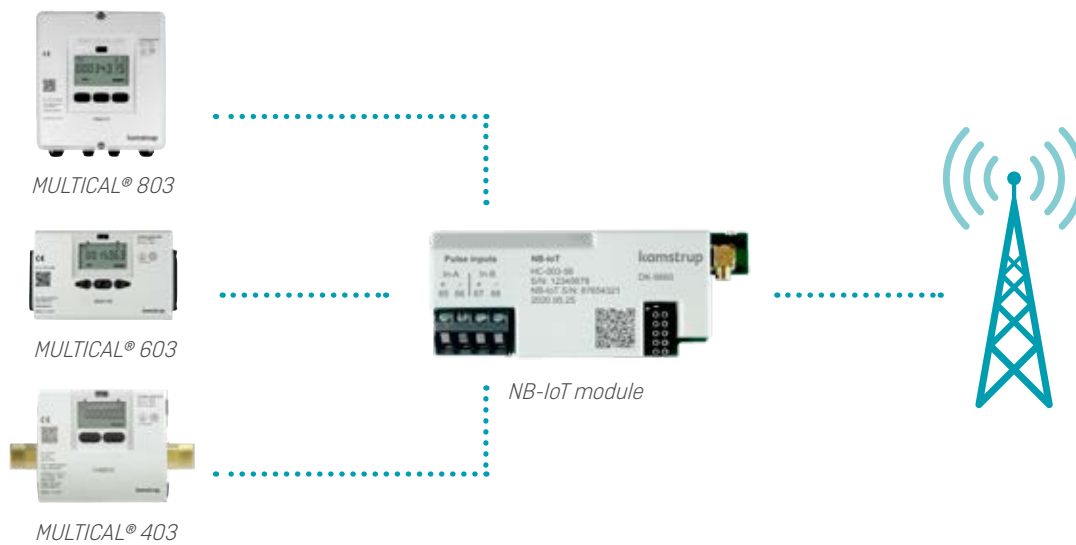
2,5%

Average savings per household of

€ 33

## NB-IoT module key features

- Excellent coverage in hard-to-reach locations (e.g. basements)
- Future-proof P2P technology – NB-IoT is a cornerstone in telco 5G strategies
- Automatic transmission of data every quarter, hour or day
- 8 years' data communication included in the meter price
- Built-in data logger
- Exact timestamp on all data registers
- Option for battery or mains power for more flexibility
- Made for integration using standard protocols
- Hourly transmission using mains power
- Daily transmission of 24 hourly values using battery power



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