
Pressure optimisation in your distribution network

- Minimise your leakage losses
- Lower energy consumption
- Extend your asset lifetime



Why monitor your network pressure?

Pressure in the distribution network is one of the most important operating parameters for a utility. Detailed knowledge about pressure provides opportunities to make cost savings through operation optimisation and leads to customer satisfaction.

Distributing water at too high a pressure increases the risk of bursts and leakages. At the same time, energy is wasted unnecessarily. Conversely, if the pressure is too low at the point of supply, the consumers' expectations for the supply quality are not met.

Flaws in the supply network infrastructure can create potentially damaging pressure surges and transients. High resolution pressure data allows these flaws to be quickly identified and managed.

Poor pressure management could lead to an increased risk of water ingress from the surrounding environment, which can result in pollution of the drinking water.

"With Kamstrup PressureSensors in our network, we're able to monitor our pipe network and maintain regular pressure to customers regardless of high water demand periods and regardless of network operations. This is one way of ensuring good customer service."

*Tommerup By Water Utility,
Parly Pedersen, Utility Manager*

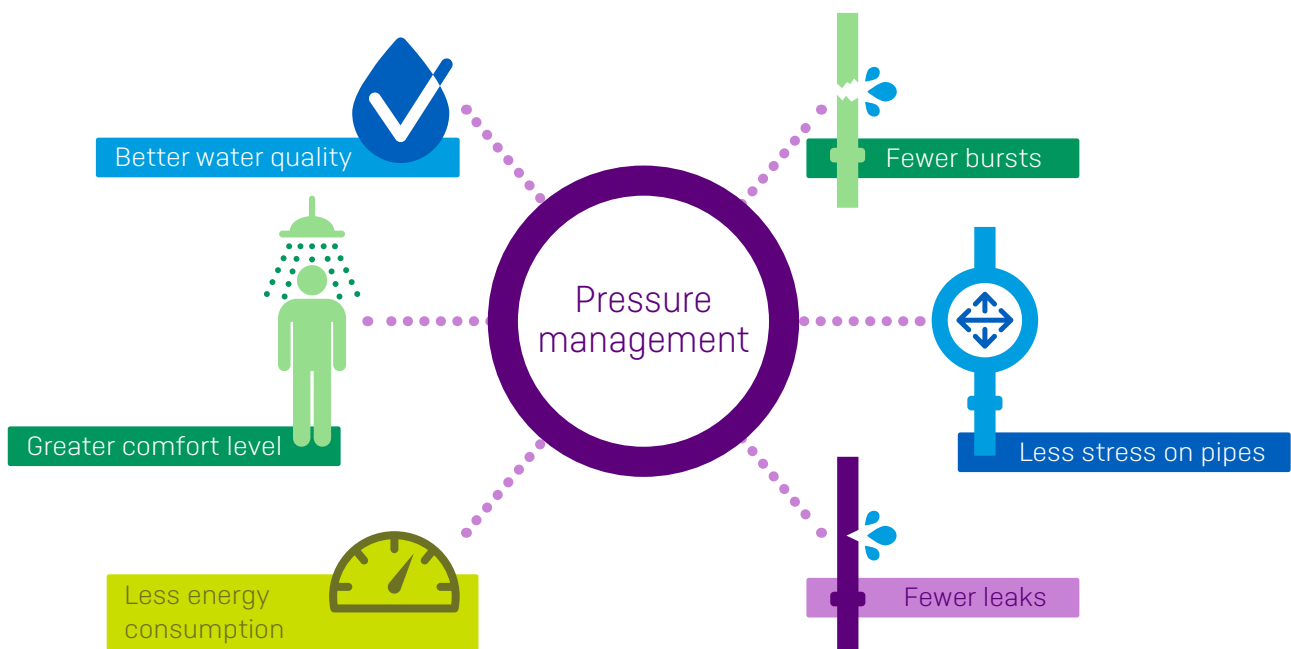
Adjust network pressure, lower your leakage losses and save energy

With Kamstrup PressureSensors you can measure both average pressure levels and capture sudden pressure surges and drops.

By installing Kamstrup PressureSensors at strategic places in the network, you will have better control of network pressure. When the pressure is under constant surveillance close to the point of supply, water utilities can operate much closer to the minimum demands.

Intelligent alarms are built into the Kamstrup PressureSensor that warn the user when the average pressure level is too high or low.

Often, it will be possible – either in periods or permanently – to lower the general pressure in the network creating tangible advantages in the form of lower operation and energy expenses. Reduction in pressure also decreases water loss from leaks in the network.



Extend your asset lifetime

Kamstrup PressureSensors will register and warn the user of sudden pressure surges and transients by taking measurements at a high rate of 10 Hz. This enables you to identify the sources and eliminate them. Fewer pressure surges means reduced likelihood of pipe bursts – and markedly lower costs. The general stress on the distribution network is reduced to extend the lifetime of the components.

Technical details

Measuring range	0-16 Bar (0-232 PSI)
Measuring speed	In intervals at 10 Hz (10 times per second)
Battery	Replaceable lithium battery with 6 years lifetime
Communication	Wireless M-Bus 868 MHz, Mode C1 Kamstrup Fixed Network or READy Mini Concentrator
Connection	G ½"
Info codes:	
Drop	The pressure drops unexpectedly compared to the current average pressure.
Surge	The pressure surges unexpectedly compared to the current average pressure.
High	The current average pressure increases to a configurable limit.
Low	The current average pressure drops to a configurable limit.
Transient	The pressure changes rapidly over short periods of time.
Communication error	The pressure sensor is unable to communicate.

Think forward

• **Kamstrup A/S**

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