



Smart Valve Key

Portable intelligence

Smart Valve Key helps you monitor valve status across your network smartly and efficiently.

This intelligent portable device lets you reclaim control of the valves in your service area by remotely giving you visibility of their status and enabling you to act on a problem before it impacts your customers. No water pressure and quality issues; no unhappy customers.

The problem to solve

As part of your daily operations, you'll inevitably have to open or close water valves for repairs, maintenance or to connect a new service line. Like our owner South East Water.

South East Water carry out about 20,000 valve operations a year. In audits undertaken, we've found that approximately seven and a half per cent of those are in the wrong status. This includes around five per cent closed and two and a half per cent partially open when the valves should have been open.

Unintentionally closed valves collect sediment and affect water pressure and service delivery.

When we find that these valves are in the wrong status and open them, this sediment can get resuspended and the water pressure can fluctuate in the system. Customers understandably don't take this lightly and complain about the water quality and service.

If you face a similar problem, what you need is a solution that will help you know when a valve is not in the position it's supposed to be so that you can take prompt action and rectify the situation before it impacts your customers.

You also need that solution to be robust so that it can withstand rough handling situations and last for many years without needing a change.

We have developed such a solution for South East Water to address their valve troubles and are happy to now share it with you.

Identify the exact location of your valves and their status, remotely

Reduce the likelihood of water hammer and water quality issues

Maintain network accuracy

The answer

The Smart Valve Key. It's a portable device that remotely digitally records the status of valves within your network as open or closed and reports back to the central system.

The device identifies the exact location of the valves and records the number and speed of valve turns allowing operators to have a clear view of your network and maintain accuracy.

This means stopping a problem in its tracks before it affects your customers.

The key to efficiency and convenience

The Smart Valve Key is smart for a reason. It's designed to be unobtrusive and is very similar to an existing valve key which means you need minimal training to use it.

When the valve key is lifted out of the truck and placed vertically on the valve, the Smart Valve Key wakes up and gets to work.

When the job is done and the key is returned to the back of the truck in a sleeping position, the Smart Valve Key sends all the data that it recorded via NB-IoT network back to the central system.

A digital record of the valve status is created and stored making it easy for the operators to be aware of what's going on and control your network more effectively. So simple and easy.

Reclaim control of your network and regain trust

With the portable Smart Valve Key, the power is literally in your hands. It records all the important valve data and faithfully reports back to you. You'll have a complete picture of your network so no valve will escape your eye again.

Think ahead. You'll be solving issues before they occur.

Who are we?

We're owned by South East Water, a Victoria, Australia-based water utility. We develop and commercialise innovations proven within the South East Water network, so we can bring them to organisations like yours.



For more information,
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