

Streamlining Leak Detection: Connecting all Detectors in a Network

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Gevasol's Fluid Control Division must ensure leak-free products as a company specializing in flow management products.

Six leak detectors (brand Ateq) are positioned in our facility in Voorhout. Until now, each leak detector operated independently and required individual programming.

Due to limited storage capacity, the detectors were individually programmed to check a limited number of products. Consequently, moving production from one location to another necessitated reprogramming the detector.

To prevent production delays caused by unavailable detectors, our engineers were always on standby, ready to make the necessary changes to the detectors. This process was time-consuming, often causing interruptions, and posed the risk of errors. Additionally, the test results were not stored for future analysis.

In collaboration with Ateq Benelux, Ateq's representative in the Netherlands, we established a unique network structure connecting all detectors to the Gevasol network. The same network also hosts a server containing the latest test programs and storage capacity to retain all test results for future reference.

Under the new system, each leak detector is managed by a Mini PC connected to the internet. The operator scans the barcodes on the production order and the corresponding tool used for the test. When the barcodes match, the Mini PC sends the appropriate programs to the connected leak detector, initiating the test.



A typical workstation, including a leak detector, Mini PCs, and scanner.

This streamlined process has many benefits:

- It eliminates the need to search for programs manually.
- It ensures the correct programs are loaded.
- Test results are stored in the Mini PC and transmitted to the server at the end of each day for safekeeping and future analysis.
- Programs are being updated on the server. Each morning, the updated batch is sent to all Mini PCs, ensuring that all used programs are up to date.
- The Mini PC can also be remotely controlled, allowing engineers to operate the leak detector from their office.
- The system can be connected to any internet-connected detector, enabling the inclusion of detectors in other Gevasol facilities into the network.