

Asnæs Vandværk have chosen Signalix telemetry modules for control and monitoring of water plant!

The Plant Manager Max Christensen, responsible for the daily management of Asnæs Vandværk since 1985, has decided to employ Signalix GSM/GPRS telemetry modules to control and monitor his water plant as the first to do so in Denmark!

The water plant, located in the middle of Lammefjorden, supplies water to the over 1800 households of Asnæs in Dragsholm community, It produces approximately 250.000 m³ of water a year. The water has very high quality due to the very special conditions in Lammefjord's underground.

The plant has 4 wells with a total capacity of app. 675 m³ per day. The wells are app. 45 meter deep, and pumps are placed at depth of 10-15. The water is pumped to separate high reservoirs placed at high locations around Asnæs municipality as shown on the sketch on the last page. Reservoirs supply water to households via gravitation pipelines.



The manager, Max Christensen, informs us that the plant has been equipped with Signalix GSM/GPRS modules since august 2004. After a 6 month trial period, Signalix wireless GSM/GPRS modules have replaced the old control and monitoring system-based on APL-connections. The water plant has closed all expensive APL-connections as well as dismantled the over-voltage protection systems. Finally, all electronic equipment made obsolete by the wireless Signalix system was taken down!

Max Christensen says that he soon (already in the fall of 2004) became aware of the potential of Signalix modules. Having found out how the modules function, he became confident and quite enthusiastic about the security and reliability of the telemetric solution. He was attracted to the ease and logic of programming and at how easy they are to use,

In the beginning, Max Christensen worried about the reliability of the GSM/GPRS network. Would it perform safely? Are there breakdowns and how often and how long they last?





Signalix MT-101 telemetry module installed in Asnæs Vandværk

He quickly discovered that with the new supervision and control system, he could afford to lean back and enjoy the greatly improved economy of the water plant.

Max Christensen has monitored his GSM/GPRS network since autumn of 2004, only to find that it has been down for more than 15 min only a few times. In 2005 until today, he has not registered a single network failure!

The Signalix modules in the Asnæs plant are equipped with SIM cards with static IP addresses. That makes the network they work in hermetically sealed from public networks and increases security.

TDC calls the solution: Mobile Secure.
TDC guarantees an up time of more than 99%.

In case of critical fallouts, Signalix modules can be configured to announce these by sending SMS messages! Max Christensen tells us that by establishing the new system, he has gained many advantages. The most important ones are:

- the very moment a fault occurs he receives an SMS explaining the nature of the fault. In the case of critical faults, the modules send an SMS and a CLIP call
- since the plant has a back-up system, Max Christensen can quickly and easily evaluate the problem and via SMS send a command to the Signalix module, e.g. to start the reserve pump instead of the damaged one

One of the typical problems is power failure. In such cases, the modules carry on working on their backup batteries and send an SMS message informing that the plant continues working on its emergency power supply system.

Max Christensen explains that his primary task is to detect problems before his customers do. This means that consumers have water in taps all the time!

Max Christensen states that the new system has made his life much easier. He now has a tool which enables him to have a much higher quality of life, since he no longer has to run to the plant at every minor incident. In fact, he can now sleep through the night.

He has better control of the plant and upon receiving an alarm he can evaluate whether it is critical or whether it can wait.

Any attempt of intrusion to his pump stations or reservoirs, is of course reported via SMS.

Max Christensen expects that his investment will pay off in less than 3 years; he already saves 8000 DKK per year compared to the old installation.

In essence, switching to Signalix will not only ensure peace of mind, but also prove to be a sound investment and excellent economy-booster.



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