

The all-round carefree panel

Continuous monitoring of drinking water made easy



The Frasnacht water treatment plant is one of 17 water treatment plants on Lake Constance and forms part of the St. Gallen regional water supply system (RWSG). Opened in 1999, the plant has a daily capacity of 60,000 cubic meters of water and supplies 150,000 inhabitants in the region with drinking water.

"I can summarize my experience of the panel in three words: Fault-free, maintenance-free, perfect."

Rolf Bügler
Water Supervisor
Water facility Frasnacht
Switzerland



Rolf Bügler, Water Supervisor at the water facility in Frasnacht



The water facility in Frasnacht on Lake Constance

In a nutshell The Frasnacht water treatment plant relies on analytical panels from Endress+Hauser to monitor the drinking water treatment process. The panels are clearly laid out, easy to use and extremely reliable – and apart from an annual service by Endress+Hauser service technicians, they're completely maintenance-free.

The challenge Several critical parameters are monitored continuously in the freshly extracted raw water as well as the purified water. Measurement results must be reliable, as the water supervisor will intervene in the water treatment process only if the measured values indicate that this is necessary. The Frasnacht water treatment plant had previously been fitted with measuring points from different manufacturers. However, this made managing the measuring points difficult, as the water supervisor had to deal with

a range of devices from different suppliers. When the time came to replace the measuring technology, it quickly became clear that all analytical instrumentation should be sourced from a single supplier in future. In terms of measuring technology requirements, the water supervisor at the water treatment plant says, "We expect a measuring point to deliver accurate, stable and reproducible values, to run reliably and be easy to operate".

Our solution Following detailed comparisons of measuring instruments from several manufacturers, the quality manager at the water treatment plant decided to go with Endress+Hauser. He and his colleagues had had positive experiences with Endress+Hauser's turbidity measurement and service in the past. An analysis panel was deployed as a compact solution for the measurement of key parameters ranging from temperature, conductivity and pH to

turbidity and SAC. The panel was custom-built to meet the customer's exact requirements. It was supplied with all sensors and measuring devices already installed, thus ensuring straightforward and easy commissioning. Since then, two panels have been deployed for purified water monitoring and one for raw water monitoring.

The panel includes the following components:

Left: Turbidity measurement with bubble trap, ultrasonic cleaning, flow measurement and de-aeration

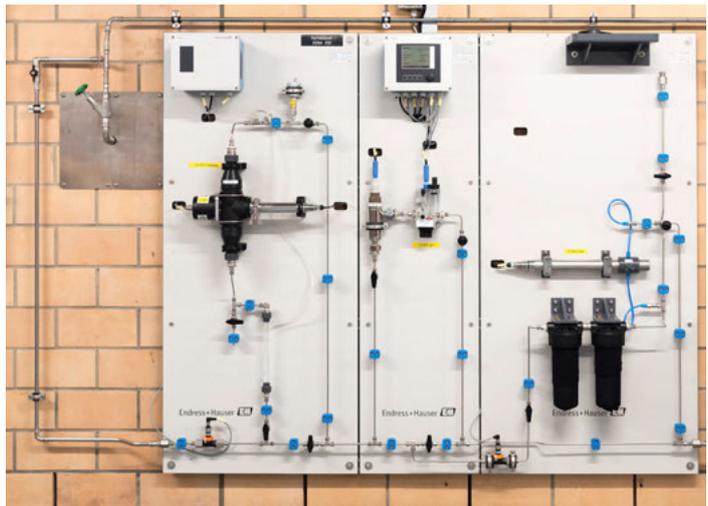
Middle: Conductivity and pH measurement

Right: SAC with connection for calibration solutions and filter for removing dirt particles. To keep water consumption at a minimum, steel pipes were used.

Result Both of the analysis panels for purified water monitoring have been in use for almost two years and have provided reliable, hassle-free measurements during this time. A technician from Endress+Hauser comes once a year to perform a service. Apart from that, absolutely no maintenance is required. The analysis panel for raw water monitoring was put into operation approximately 10 months ago and is also functioning perfectly.

Customer benefits

- **Accurate, stable and reproducible measured values** guarantee maximum drinking water quality.
- **Trouble-free operation:** The purified water panel has provided reliable measurements for almost two years without a hitch.
- **Easy to use:** The measuring points are compact and laid out clearly on a panel. The measurements and calibrations of all parameters run together in one transmitter.
- **Completely hassle-free:** Maintenance required only once a year by Endress+Hauser Service.



Drinking water panel: Compact, clear solution for water works.



More than happy with the analysis panels: Rolf Bügler, Water Supervisor at the water treatment plant in Frasnacht.

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