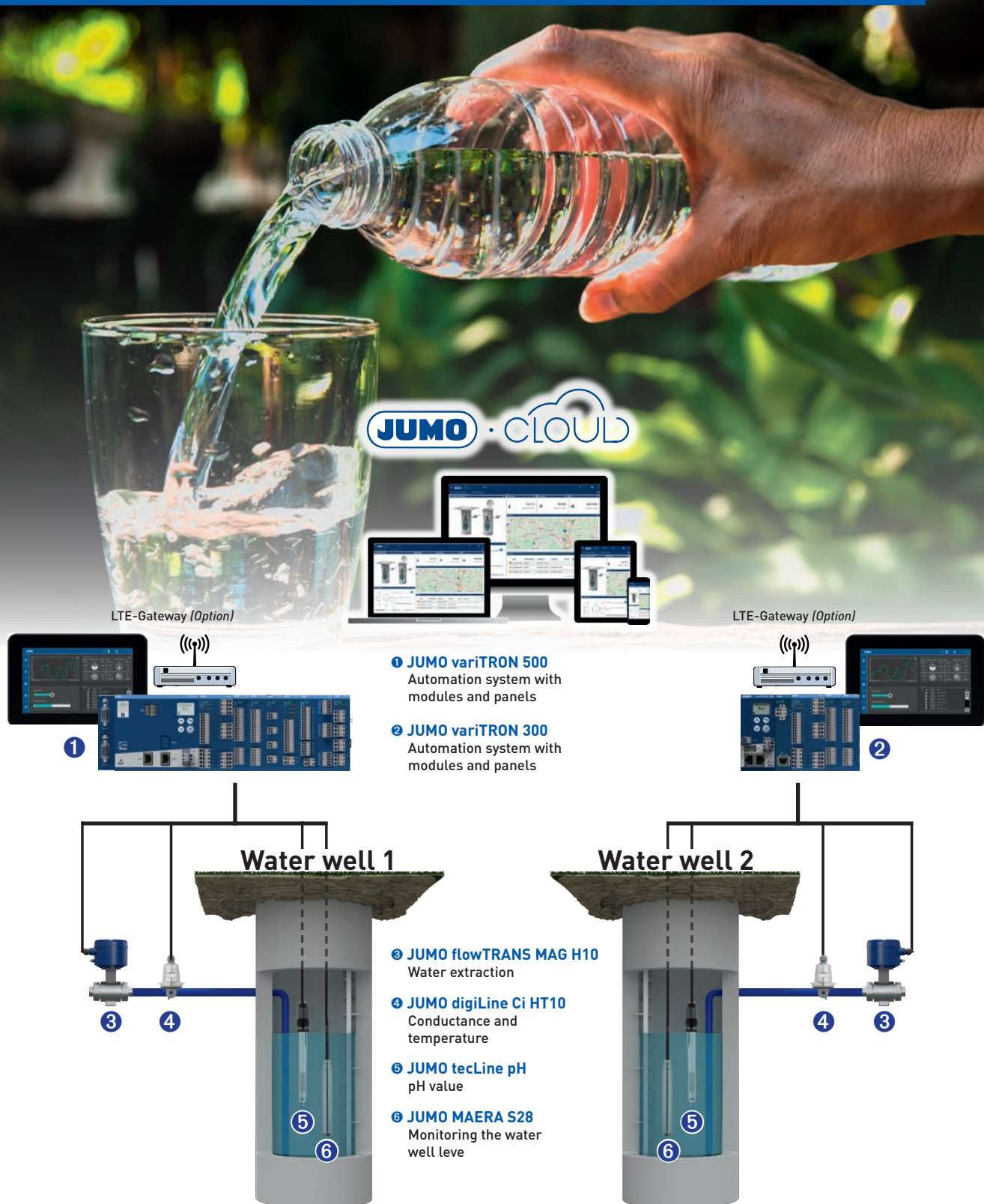


# Water Well Monitoring with JUMO: From the Sensor to the JUMO Cloud

How does water get into the cloud?



Overview of water well monitoring with visualization in the cloud

**M**ineral water is drawn from wells. Similarly, breweries also draw their water from deep wells that must be monitored. Most operators run several water wells, which are usually far away from each other, so that personnel requirements are very high. The inline acquisition of the measured values in the individual water wells along with the depiction in the **JUMO Cloud** presents a solution that significantly reduces the workload and that can also be automated if required.

## Monitoring

The **temperature, water well level, conductance, pH value,** and the **flow** must be monitored. Among other reasons, the purpose here is to ensure that no groundwater enters into the water well. However, groundwater extraction, which must also be reported, is subject to strict specifications. Groundwater rights along with water well lowering play a significant role here.

## Extendable by additional measurands

The respective measurands can be connected to the **JUMO variTRON 500** automation system. All determined values are shown on the on-site touch display.

# Visualization of all plants and measured values in the JUMO Cloud

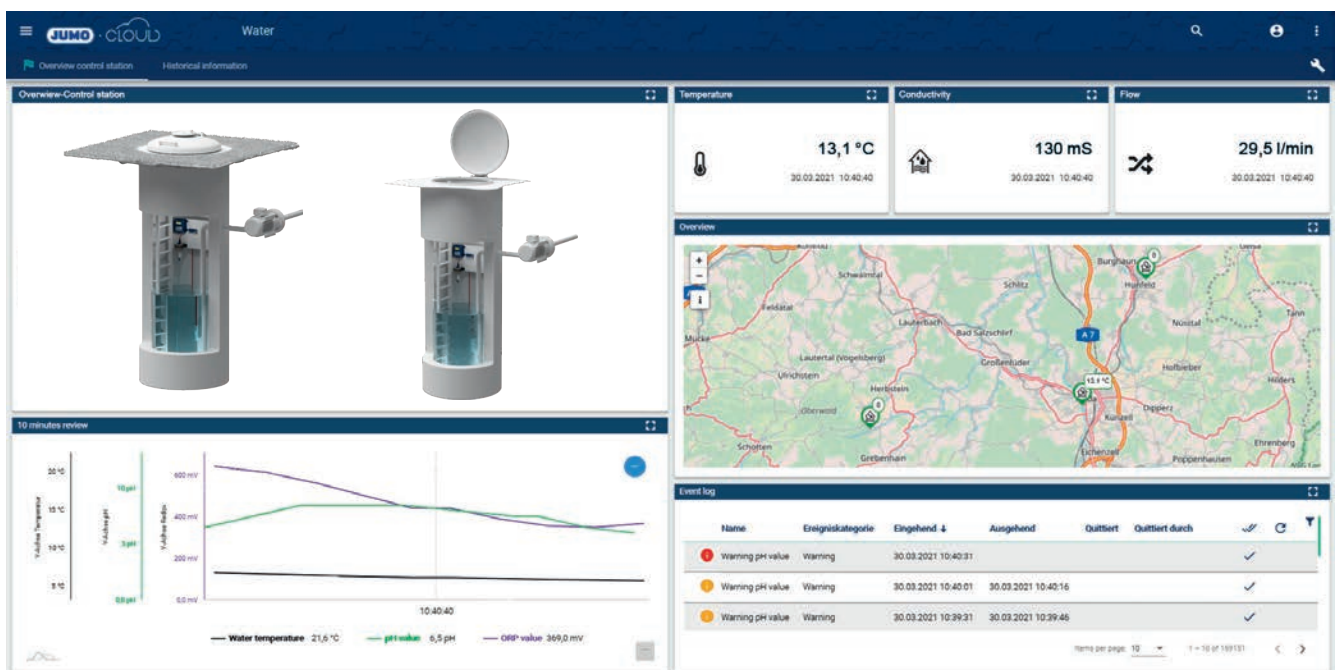
The outputs can be used, for example, to switch off pumps when water levels fall below a certain point. Furthermore, the system acts as a gateway to the **JUMO Cloud** with a secure MQTTS connection.

All measurement data comes together in the JUMO Cloud. This way, all water wells and values can be visualized and evaluated via individual dashboards.

Report creation is also very easy. If values are exceeded or fall short, alarms can be predefined and then sent by email, text message, or other chosen option. ■

### Summary:

- Reduced workload for personnel through inline measurement and data transfer to the JUMO Cloud
- Continuous monitoring and fast response times in case of value deviations
- Secure data recording with backups
- High degree of plant availability and continuous saving of quality parameters with alarm function
- Automated reporting



Visualization of a water well with its measured values. You can find a free demo on: [www.jumo.cloud](http://www.jumo.cloud)