

Heartbeat Technology in the water & wastewater industry

Liquistation automatic samplers

Heartbeat Technology The pulse of your measurement

Do you want to increase your plant's availability and decrease costs? With Heartbeat Technology, Endress+Hauser offers the widest choice of measuring devices incorporating a groundbreaking diagnostics and verification concept designed with this purpose in mind.

Through a clever combination of diagnostics, verification and monitoring, Heartbeat Technology enables safe and cost-efficient plant operation throughout the entire life cycle.



The Liquistation automatic samplers are used in many water and wastewater applications.

Challenges for the water and wastewater industry Whether in sewage networks, WWTP outlets or surface water monitoring, continuous sampling is required everywhere to verify that legal limits are being observed. Sampling in these cases is usually conducted at short intervals, resulting in considerable costs particularly if the sampling point is located far away or is difficult to access. That is why this is a task best assigned to automatic samplers.

To ensure that automatic sampling takes place continuously and that there are no gaps in verification, it is important to be familiar with the status of the sampler. That is why the functional integrity of the entire installation is tested regularly – from the sampling point to sample bottling. This testing takes place in the field directly at the sampler and must then be documented precisely. All of this requires considerable manual effort.

Requirements for an optimized solution For users in the water and wastewater industry, functional testing of the sampler should ideally be automated, preferably using a standardized procedure that enables immediate and automatic documentation of the test as well as facilitating a comparison of different measuring points. In addition, testing should not take long and should be easy to do as well as error-free.


Our solution Samplers with Heartbeat Technology guide you reliably through the verification process. Within just a few minutes, you can find out the status of your device and take corrective actions if necessary. This means that you can be sure that the sampling process is running reliably and that there are no gaps in verification.

Incidentally, you can connect up to four sensors for different parameters to Liquistation samplers. That's why verification with Heartbeat Technology delivers a clear "Pass" or "Fail" result for the complete measuring point, i.e. for the sampler and all of the connected sensors. With just one click, you can generate a comprehensive verification report in PDF format, save it and print it out.

Benefits Verifying an automatic sampler with Heartbeat Technology reduces costs, saves time and makes for easier documentation. The stricter the documentation requirements, the greater the benefits of using Heartbeat Technology. In addition to pass or fail statements, the report also documents additional sensor and sampler information such as serial numbers or installed electronics modules. In the event of an error, your service staff can immediately identify any part that needs to be replaced, thus allowing for much easier maintenance.

The verification reports of the Liquistation samplers also contain key performance indicators (KPIs), which you can use to compare different measuring points. This makes it possible to identify the potential for optimization and facilitates better planning of maintenance cycles, for example.



 **How you benefit from Heartbeat Technology in Liquistation samplers**

- 1 hour time saving per verification = €100
With just one verification per quarter, the Heartbeat Technology option will already have paid for itself in the first year.
- Heartbeat Technology enables condition-based maintenance of samplers, thus increasing their availability.
- Easy documentation of the sampling point to the highest quality standard: A user-friendly verification report indicates clear „Pass“/“Fail“ results for all transmitter and sensor components.

www.addresses.endress.com

Eco-friendly produced and printed on paper from sustainable forestry.