

## **Heartbeat Technology in flow-, level, temperature- and analysis measurement devices**

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### **Keep your plant available with minimum effort**

Heartbeat Technology in flow-, level-, temperature- and analysis-measurement devices organizes clear, standardized diagnostic messages of what needs to be done in order to maintain the plant economically based on necessities. With this it enables predictive maintenance, and delivers evidence for operational reliability and process safety. As the devices run their own diagnostics, proof tests are only necessary in maximum extended cycles.

### **Benefits**

- In-situ verification and documentation of each measuring point without any interruptions
- Flow-, level-, temperature- and analysis-devices continuously diagnose themselves and extend test cycles
- Diagnostic messages provide precise instructions for maintenance
- Distinct documented test results with a simple guided test procedure
- The automatically generated test protocol supports documentation for laws and norms
- Inline-calibration of temperature-measurement (TrustSense) with calibration protocol
- Process and device data show trends for predictive maintenance, e.g. corrosion-/coating- detection in flowmeters or foam-/crust-detection in level-applications
- Combined process and device parameters facilitate analysis for process optimization

With Heartbeat Technology you keep your flow-, level-, temperature- and analysis-measurement under perfect control. You simply verify your measurement points without interrupting your processes. As the devices run their own diagnostics, proof tests are only necessary in maximum extended cycles. Furthermore the automatically generated reports without process interruption support the documentation. For future-orientated predictive maintenance the instruments offer parameters to monitor the performance for process optimization.