

# The new Liquiphant FTL51: More safety. More Industry 4.0

Once the first vibronic point level detector, the Liquiphant is now ready for Industry 4.0.

**The Liquiphant has been installed six million times worldwide. Once developed as a new measuring principle for customer challenges in the 1980s, it is regarded as one of the most reliable point level detectors in industrial plants. The latest generation of devices is now ready for Industry 4.0.**

Whether as overfill protection or dry run protection, the Liquiphant today performs many tasks in the automation of processes. But even the most simple measuring principles have to adapt to digital change. It was time to equip the sensor for the tasks of tomorrow. Those who prepare their company for the digital age today will optimize their field level as well as their information technology. This requires sensors that provide relevant data in order to initiate process optimization.

## **More safety**

All the digital innovations of the new generation of devices serve only the purpose of simplifying human work. The Liquiphant is used in storage tanks and pipelines for level measurement of any liquids. The all-rounder also works where other measuring principles reach their limits due to conductivity, flows or air bubbles. The Liquiphant has already been developed according to IEC 61508 and the "Safety by design" principle and is therefore designed for use in SIL2 and SIL3 applications.

## **More Industry 4.0**

In the technology roadmap to "Process sensors 4.0" NAMUR demands that a second, mobile way to communicate with the sensor must be opened and that the sensor provides information for preventive maintenance and process optimization. Furthermore product information such as manuals or certificates must be available on site at all times. Operators can now communicate with the Liquiphant and the SmartBlue App from Endress+Hauser. The app provides access to all product and diagnostic data.

## **The new generation**

Especially in hard-to-reach areas, where scaffolding has to be provided for maintenance, this speeds up the inspection of systems considerably. The new Liquiphant displays the status of the level switch via LED or via the diagnostic function of Heartbeat Technology in the SmartBlue App. In addition verification via Heartbeat Technology enables complete documentation. The newly implemented SIL Wizard also guides the user through the recurring test in an uncomplicated manner.

## **Benefits**

- Simple commissioning without adjustment for various media
- Universal measuring principle for usage in all kind of liquids

- Maximum safety with Heartbeat Technology through real-time diagnosis of corrosion
- Verification without process interruption thanks to Heartbeat Technology
- Proof test at the push of a button from the control room or directly at the device
- Safety by design: developed according to IEC 61508 for direct usage in SIL2 and SIL3 applications in homogeneous redundancy
- Bluetooth Technology® access via a mobile device to identify, to check the status and to access documentations
- Minimum maintenance effort: The recurrent proof test according to SIL and WHG can be carried out at the push of a button without removal. A simple and intuitively guided wizard in the SmartBlue App ensures correct execution.



**Picture: E+H-Liquiphant01\_kurz.jpg**

The latest generation of the Liquiphant is now ready for Industry 4.0.

## **The Endress+Hauser Group**

Endress+Hauser is a global leader in measurement instrumentation, services and solutions for industrial process engineering. The Group employs approximately 14,000 personnel across the globe, generating net sales of over 2.4 billion euros in 2018.

## **Structure**

With dedicated sales centers and a strong network of partners, Endress+Hauser guarantees competent worldwide support. Our production centers in 12 countries meet customers' needs and requirements quickly and effectively. The Group is managed and coordinated by a holding company in Reinach, Switzerland. As a successful family-owned business, Endress+Hauser is set for continued independence and self-reliance.

## **Products**

Endress+Hauser provides sensors, instruments, systems and services for level, flow, pressure and temperature measurement as well as analytics and data acquisition. The company supports customers with automation engineering, logistics and IT services and solutions. Our products set standards in quality and technology.

## **Industries**

We work closely with the chemical, petrochemical, food & beverage, oil & gas, water & wastewater, power & energy, life science, primaries & metal, renewable energies, pulp & paper and shipbuilding industries. Endress+Hauser supports its customers in optimizing their processes in terms of reliability, safety, economic efficiency and environmental impact.

## **History**

Founded in 1953 by Georg H Endress and Ludwig Hauser, Endress+Hauser has been solely owned by the Endress family since 1975. The Group has developed from a specialist in level measurement to a provider of complete solutions for industrial measuring technology and automation, with constant expansion into new territories and markets.

For further information, please visit [www.endress.com/media-center](http://www.endress.com/media-center) or [www.endress.com](http://www.endress.com)

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