Measure more with less.

5-in-1 Measurement - Measure four process variables along with a HI level switch from a single tank opening. Level Plus® liquid level transmitters provide the ability to measure product level, interface level, multi-point temperature and volume in a process from a single level transmitter. The new LevelLimit transmitter goes a step further and adds an electrically isolated HI level switch for overfill protection. No other level transmitter can do so much so accurately. Save Time and Money and Headaches, choose Temposonics.

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Each Level Plus® liquid level transmitter consists of a ferromagnetic waveguide, a float, a strain pulse converter and supporting electronics. The liquid level transmitters provided by Temposonics rely on the company’s proprietary magnetostrictive technology, which can determine position with both high accuracy and repeatability. The technology, based on magnetostriction and is not exposed to mechanical stress. Therefore, the sensors exhibit considerably longer lifespans with both high accuracy and repeatability. This creates a momentary radial magnetic field at its location on the waveguide. A short current pulse is applied to the waveguide. This creates a momentary radial magnetic field and torsional strain on the waveguide. The momentary interaction of the magnetic fields releases a torsional strain pulse that propagates the waveguide. The torsional strain pulse converter generates torsional strain pulse. The momentary interaction of the position magnet field and torsional strain on the waveguide. The momentary interaction of the magnetic field and torsional strain pulse is detected by converter. Since April 2021, the company Temposonics is part of Amphenol Corporation (NYSE: APH). Amphenol is one of the largest manufacturers of interconnect products in the world. The company designs, manufactures and markets electrical, electronic and fiber optic connectors, coaxial and flat-ribbon cable, and interconnect systems. As sensor solutions manufacturer, Temposonics matches the portfolio of the group of companies that are all part of Amphenol, enabling customers to benefit from an extended, complementary product selection and much higher reliability when compared to other technologies, even in harsh working conditions. Furthermore, since the output from sensors corresponds to an absolute position, rather than a relative value, it is not required to recalibrate sensors.

COMPANY

Temposonics is recognized as an industry leader in sensing technologies and solutions. These sensors and transmitters provide high precision and dynamic performance and/or speed measurement in state-of-the-art automation and safety-related systems. With a versatile and innovative product portfolio and a focus on superior regional support, Temposonics caters closely with customers. To optimize performance and reduce downtimes.

MEASURING TECHNOLOGY

The liquid level transmitters provided by Temposonics rely on the company’s proprietary magnetostrictive technology, which can determine position with both high accuracy and repeatability. Each Level Plus® liquid level transmitter consists of a ferromagnetic waveguide, a float, a strain pulse converter and supporting electronics. The float, containing a permanent magnet and sitting on the liquid, generates a magnetic field in the location on the waveguide. A short current pulse is applied to the waveguide. This creates a momentary radial magnetic field and torsional strain on the waveguide. The momentary interaction of the magnetic fields releases a torsional strain pulse that propagates the length of the waveguide. The speed of the ultrasonic wave in the waveguide is precisely known, the time required to receive the return signal can be converted into a distance measurement.

APPLICATIONS

• Tank SLAYER® - Bulk Storage Tanks
• LevelLimit - Oil Lease Tanks
• HART® - Reactors
• SoClean® - Slump/Slag Tanks
• Tank SLAYER® - Sil Ponds
• SoClean® - Bioreactors
• SoClean® - LP Tanks
• CHAMBERED - Magnetic Level Gauge

MARKETS

• Oil and Gas
• Chemical
• Specialty Chemical
• PPC
• Pharmaceutical
• Food and Beverages
• Marine
• Mining

FEATURES

• 5-IN-1 Measurement – Product Level - Interface Level - Multi-point Temperature - Volume - API Temperature Corrected Volume
• HI Level Switch
• Field Repairable
• API Temperature Corrected Volume
• Integral Display with Through Glass Programming
• Multi-point strapping table
• 300 point digital programming
• API Temperature Corrected Volume
• Field Repairable

CERTIFICATES

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• IECEx
• C-270
• TÜV
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