

## Product Solutions

### Custom Conductive Fluid Level Sensors



**Consumer, industrial and commercial equipment is becoming increasingly complex, with features and benefits that were once associated only with high-end consumer appliances. Drawing on decades of experience in a wide variety of markets and applications, Standex engineers provide designs that save space, weight and add functionality. More importantly, they are also saving labor and energy – providing companies with unique comparative advantages in a highly competitive environment.**

Custom conductive fluid level sensors designed and manufactured by Standex are at use in a wide range of applications – including commercial, industrial and consumer appliances.



They are used to automatically dispense laundry and dish detergents, dispense syrups in commercial foodservice equipment, adjust the flow of deionized

water, and more. In addition to simplifying the use by end-customers, this technology also helps to eliminate waste, save labor and reduce pollution.

By thinking beyond the initial requirements, our design engineers have already solved many issues like false positives which result from material build up on conductive sensor elements. We offer simple technologies that are driven via external electronics – to those which are more complex and include internal electronics to eliminate electrolysis. Understanding the design parameters includes fully understanding the characteristics of the conductive fluid used. We have experience with minimal particulates to substantial amounts – corrosive materials, viscous products, and more. No matter what your requirements, our engineering team is a trusted resource – providing valuable input at each step of the process.

#### **Custom Standex Conductive Fluid Level Sensors:**

- Liquid level sensor especially designed to handle viscous, harsh & corrosive dishwasher soap, bleaches, and other detergents
- Liquid level sensor for dispensing of viscous syrup in bulk foodservice application
- Water-in-fuel sensing for automotive and off-road vehicles
- Industrial control applications
- HVAC/R condensate reservoirs

#### **Capabilities include:**

- Sensor & Reed Switch Engineering
- Experienced in UL, CSA, IEC, TUV & VDE Standards
- Wire Prep and Wire Harness Assembly
- Connector & Terminal Engineering
- Mechanical Engineering & Electronic Component Packaging
- Laser Welding
- Hi-volume, Progressive Die Stamping
- Glass to Metal Sealing
- 3-D Solid Modeling Design
- Rapid Prototyping
- Potting including Vacuum Impregnation
- Plastic Molding Capabilities
- Power Supply & Other Systems Engineering
- Coil winding
- 52ga-8ga & Foil Magnetic Component Winding
- Wind and Assemble All Core Shapes and Types Including Laminated
- Complete Lab & Test Capabilities for Mil/Aero, Automotive and Other Industries as Required

## Conductive Fluid Level Sensor Technologies

### LS100 Series

A passive device with no internal electronics

- . Driven from external electronics
- . Suitable for conductive fluids with minimal particulate
- . May be operated in a "pulsing" mode to reduce electrolysis
- . May be operated with bipolar pulsing current to eliminate electrolysis



### LS200 Series – Patented

With False Full protection and current level shift to indicate fluid level

- . Available as a 2-wire device
- . Capable of substantial miniaturization
- . Equipped with Standex patented "bias ring"
- . Suitable for most conductive fluids – especially with substantial particulate
- . DC current pulse supplied by user's electronics; current draw indicates fluid level
- . Optional LED available for local fluid level indication



### LS300 Series – Patented

With sensitivity shift/false full protection

- . Full electronics and substantial probe miniaturization
- . Equipped with Standex patented "bias ring"
- . Available as a 3-wire device
- . Suitable for most conductive fluids – especially with substantial particulate
- . Internal electronics used to eliminate electrolysis
- . Input from 9V to 30V DC
- . Provided with a switched output ; 30 volt open collector sync, TTL or CMOS
- . Optional LED available for local fluid level indication

