LevelSlick

Specialist level sensors for challenging liquids

Total reliability, whatever the media




gillsc.com

7014-LLS Issue 1

GILL

RELIABLE LIQUID LEVEL MEASUREMENT – WHATEVER THE LIQUID

New continuous conductive technology, from Gill, delivers the next step in reliable digitalisation of liquid level measurement.

SLURRIES, SYRUPS, SUSPENSIONS, VARNISHES…

This sensor can reliably measure some of the most challenging electrically conductive liquids.

NON-STICK COATING

Hydrophobic PTFE sensor coating prevents the accumulation of solids suspended in liquids.

LOW INSTALLED & LIFETIME COSTS

Easy installation combined with low maintenance and service costs make continuous conductive sensors fast to deploy and cost effective.

ADDRESSES COMMON MARKET ISSUES

Continuous conductive technology addresses accuracy and reliability issues associated with ultrasonic level measurement.

Product Description

LevelSlick has a robust contacting probe with a non-stick coating capable of continuous level measurement of difficult liquids. Originally developed to measure levels of materials containing suspended matter such as effluent and sewage, it's also ideal for level measurement of highly viscous or corrosive liquids, sludges or slurries.

Unlike other market solutions, LevelSlick has no holes or moving parts to block or stick. The non-stick fluoropolymer (PTFE) coating prevents caking, making it perfectly suited to media that is difficult to measure using other technologies.

LevelSlick overcomes specific level measurement issues associated with viscous and inconsistent fluids such as build-up on the sensor, false echoes and permanently tripped sensors. The consequences of tank overflow or running dry are potentially high both financially and reputationally. LevelSlick delivers accurate, reliable level measurement continuously for total peace of mind.

> View Technical Specifications

GILL

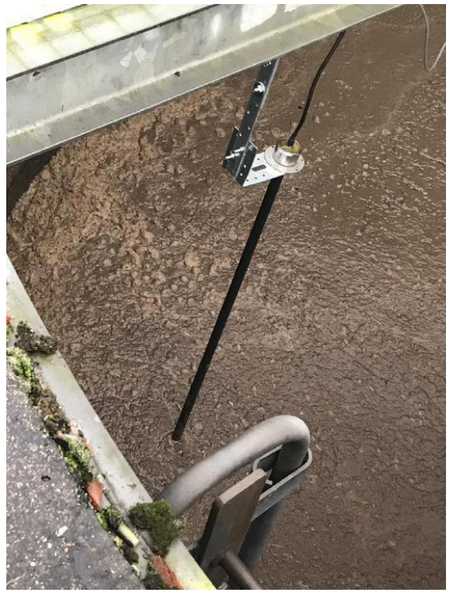
gillsc.com

7014-LLS Issue 1

GILL

Product Success

Originally designed for the challenges of marine black water (sewage) tanks, LevelSlick has found a home in many other challenging environments. Gill currently has a fleet of sensors deployed protecting the UK domestic waste water networks from over flowing as well as other sensors monitoring the level of waste water in sewage treatment works. Thanks to the PTFE coating, the sensor resists the accumulation of suspended matter in waste water; which can include toilet paper and other solids flushed into the waste water system.



Installation Location

Metal Tank? Plastic Tank? Dished Bottom? – No problem!

LevelSlick is a fully operational self-contained liquid level sensor, so it is really easy to set up. There is no reference to the tank wall so it will work with plastic and metal walled tanks, without problems. Want to mount your sensor close to the tank wall? No problem, you can mount the sensor as close as 20mm to the wall of a metal tank without any issues.

Do you have issues with radar signal reflecting off dish bottomed tanks? Not a problem for LevelSlick as it's not trying to control and read radar waves. Flat bottom, dished bottom; the vessel shape makes no difference.

> View Technical Specifications

Sensor Benefits

A solid PTFE covered probe brings a host of benefits:

1) Measurement of the level of challenging liquids:
   - acids and aggressive chemicals
   - shampoo, shower gel, water based paints
   - milk, fruit concentrates, liquid fertilizer, beer
2) Cleaning of the sensor and tank between batches is super easy
3) No cumbersome floats to jam or stick
4) For marine tanks there is no more cleaning of float sensors in the blackwater tanks
5) Achieve sub-millimetre level control
6) Effective level measurement for all electrically conductive liquids

DID YOU KNOW?

LevelSlick is a 12bit device. This means you have 4096 separate steps between full and empty, so it measures the level in <0.5mm increments, even on the longest 2m sensor.

Product Review

What our customers say:

"We struggled to find a liquid level sensor, that could cope with the viscous nature of our product, for years. The Gill Sensor [LevelSlick] meant we could finally take the guess work out of how much liquid was left in the tank."

Process Control Engineer - Major Chemical Company

★ ★ ★ ★ ★

gillsc.com

7014-LLS Issue 1

Easy to **install**

Fast installation

Many sensor technologies such as radar require significant set up. LevelSlick arrives ready calibrated for your specific liquid and is ready to use 'out of the box'. Once you receive your sensor it can be immersed in the liquid and immediately delivers calibrated liquid level data. No need to drain the tank and refill.

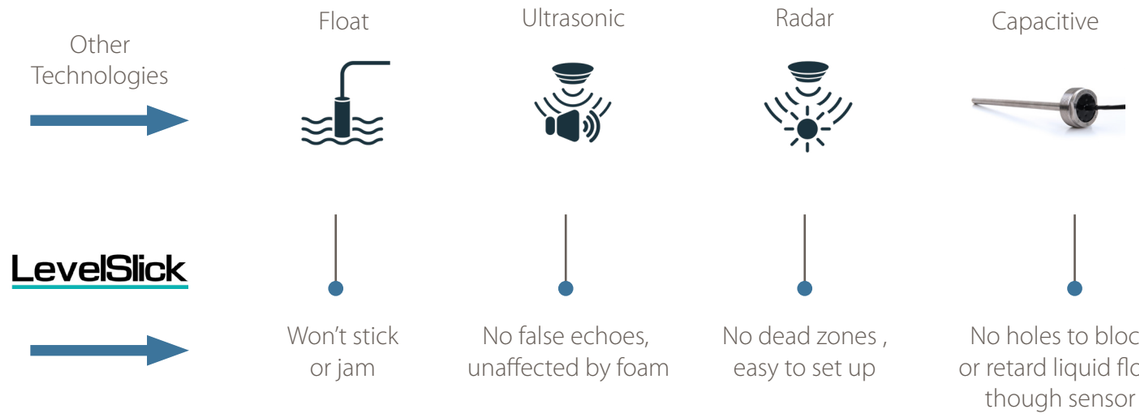
Reliable liquid level data, whatever the liquid

Do you require accurate level data for a viscous liquid, aggressive chemical or need sub-millimetre control of water or a water based liquid? Perhaps you simply want to remove the need to maintain float sensors. Whatever your requirement, LevelSlick can provide the solution with ease.

Liquid level measurement **options**

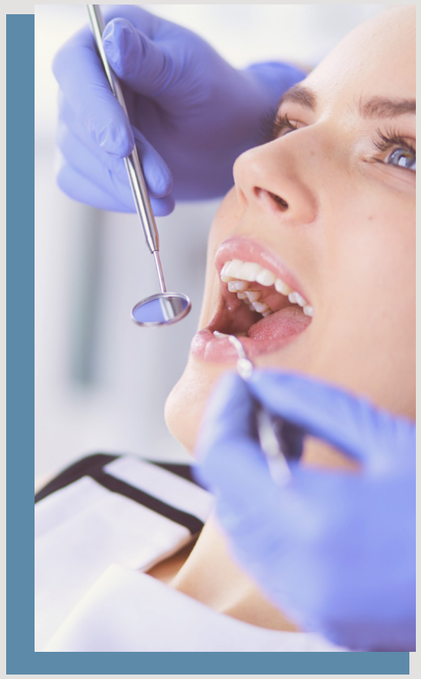
How does LevelSlick measure up against other technologies?

With so many liquid level monitoring technologies on the market how does LevelSlick measure up?



Application **Story**

A Gill customer manufactures dental varnish dispensing equipment. The liquid is a highly concentrated form of fluoride which adheres to the tooth enamel to prevent decay. The varnish is very viscous and slides slowly down the sensor probe, however the rate at which the varnish is used is also very slow. The sensor allows the machine to report to the dentist and dental nurses how much fluid is left in the tank. It also wipes down very easily and can be rapidly decontaminated with a sanitary wipe between batches. The company had struggled for years to find this solution.



Ultimate **Solution**

Do you operate remote tanks or tanks in hard to reach locations? Maybe you spend a small fortune paying an operator to walk round collecting and checking tank levels. Did you know Gill Sensors & Controls have partners who can offer cloud based data solutions? Talk to us today about your cloud connectivity needs.

INTERNET OF THINGS

> View Technical Specifications

GILL

gillsc.com

7014-LLS Issue 1

GILL

LevelSlick Product Data

Features:

- Non-stick PTFE coating for low sensor maintenance
- Highly durable enclosed electronics
- Tank Profiling system allows measurement in irregular tank shapes
- User defined full & empty alarms
- Resistive versions for use with gauges
- Universal BSP 1.25" thread mounting

> View Datasheet

Sensor models:

Output
4-20mA, 0-10v or Resistive

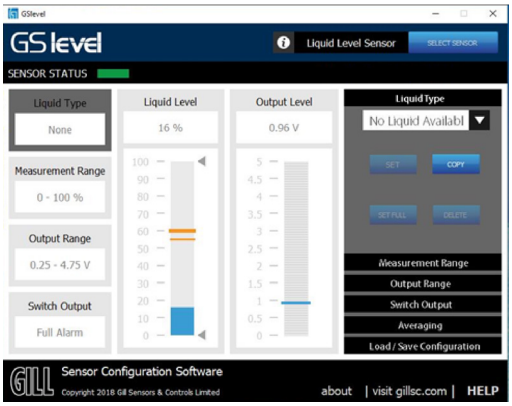
Lengths
250mm / 350mm / 450mm / 600mm / 800mm / 1000mm / 1500mm / 2000mm

Special lengths available on request

GSlevel Software

GSlevel provides a modern, simple to use and intuitive way of customising output settings, minimum and maximum levels, alarm switch level and hysteresis conditions.

GSlevel gives the user the ability to achieve a volumetric output with its tank profilling feature. Users can programme the software via Micro USB either by using the simple configuration wizard or by uploading a CSV file to profile a cross section of the data to gain a volumetric output.



Where to buy

Gill sells its products through a worldwide network of trained distributors, so you can count on the very best advice for your application.

For further information on LevelSlick, including manuals and datasheets, please click below.

> Learn more

> View Technical Specifications