



A Flowline & Fusion collaboration. A case study by Flowline.

## **Case Study: Soap Foaming Agent Liquid Level Sensor**

A takeaway document by Fusion



## This case study is brought to you by Flowline Instrumentation, USA.

When a North Carolina manufacturer of hand cleansers and de-sanitizers needed reliable level measurement for their bulk storage tanks, they turned to Flowline level measurement products.

### Sodium Laureth Sulfate

A critical ingredient in hand cleaners is sodium laureth sulfate, a highly effective foaming agent that's used in the majority of their products. However, it's a challenging liquid to measure because it is sticky, very low dielectric and extremely foamy when agitated.

### The Pulse Radar Solution



The Flowline Pulse Radar Transmitter LR15 used to accurately measure the level within a sodium laureth sulfate storage tank.

Flowline suggested the use of pulse radar level sensors (unaffected by foam) installed in a metal stand-pipe to maximise the RF signal strength and reflectivity off the surface of the low dielectric media.

The Flowline pulse radar level sensor provides continuous level data to the PLC, which in turn, monitors the tank levels and actuates low level alarms for chemical distributor replenishment.

### Product Information

#### Target Market Application

Petroleum, water, wastewater and diluted chemical storage or process applications.

#### Specifications

**Range:** 30cm to 30m

**Frequency:** 26 GHz

**Accuracy:**  $\pm 3$ mm

**Temperature Range:** -40° to 80°C

**Output:** 4-20 mA, two-wire

**Power Supply:** 16-26v DC

**Enclosure:** Aluminium with silicone gasket

**Configuration:** via integral push button display module

**Certifications & Approvals:** cTUVus, FCC



Download this document and more at:

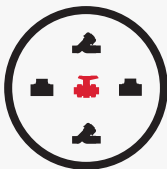
[fusionaus.com](https://fusionaus.com)

# Fusion

Fusion provides site services, plastic fabrication services, equipment hire and supplies plastic piping systems for the water treatment, utilities, mining, oil & gas, food & beverage, chemical processing, industrial & infrastructure and shipping industries.



**PLASTIC FABRICATION** | With design and fabrication facilities in WA and QLD, we've completed thousands of projects throughout Australia including: chemical dosing panels and storage tanks, truck tanks, pipe spooling, launders / chutes, machine guards, precipitators, cut to size sheet and much more.



**SUPPLY & HIRE** | HDPE, PE Electrofusion, ABS, CPVC, UPVC, PP, PVDF, pre-insulated and dual containment piping systems, as well as automation and instrumentation components. Covering the full range of pipe, fittings, valves (manual & actuated control) as well as accessories and equipment for hire and sale.



**SITE SERVICES** | Installation of plastics piping systems and plastic fabricated products, on-site maintenance and repair, chemical processing pipework, water treatment skid pipework, mine site bore lines, fire-main systems and more.



Fusion is the official Australian Distributor for Flowline Level Instrumentation.



**Perth & Brisbane**

1300 94 1004

[fusionaus.com](https://fusionaus.com)