

Precise level measurement even with difficult media and operating conditions

Continuous Level Sensor NSL-F

Benefits in production processes

For efficient production processes, continuous, precise monitoring of the filling level of feed tanks, storage tanks or filters is essential. The flexible, modular level sensor NSL-F with its piezoresistive measuring principle offers a reliable and precise application even with difficult to measure media and with demanding applications such as:

- strongly or differently foaming media
- sticky media or media adhering to the measuring rod
- pressurized tanks
- fast level changes, e.g. during filling processes
- non-metallic tanks
- different media in one tank
- tank shapes with restricted installation access
- production environments with high mechanical or chemical stress (e.g. cleaning agents)

Advantages of the NSL-F sensor

- Maximum process efficiency due to precise measurement even with demanding media. Even with foam or with the measuring rod coated by sticky or strongly adhesive media, the measuring accuracy is > 95% of the rod length.
- Ready for industry 4.0: digital I/O cable interface and analog 4...20 mA data transmission in parallel
- Ideal for metallic, non-metallic and pressurized tanks due to rod length from 30 mm to 2 m, installation from below, above or from the side and optional versions
- Intrinsically fast response time < 200 ms for precise filling monitoring, e.g. for filling systems
- Automatic adjustment to media, no adaptation required with alternating media in one tank
- Hygienic alternative to float sensors due to easily sterilizable installation solution
- Robust construction: made entirely of stainless steel

Typical customer applications

- Dairy / milk production with heaters, separators, filters, ice cream production plants, tanks for yogurt and dairy milk products
- Breweries: Brewing, lauterling and storage tanks, filters, fermenting plants
- Beverage and food industry: Filling systems for alternating beverages and juices, storage and production tanks



Optional versions



Technical specifications at a glance

- Extremely precise, fast & flexible level sensor
- True Hybrid Technology with digital + analog interface (I/O cable + 4...20 mA)
- Modular design: configurable from the top - perfect for the fully equipped high end model
- For vessels from 30 mm to 2 m height
- CF / MP cleaning up to 140 °C / 120 min.
- Response time < 200 ms for constantly precise values even with rapid level changes in high-speed filters
- Protection class IP 68 for safe application
- Smart Replace-Design: Easy replacement of all components by plug & play