

SIEMENS



Process Instrumentation

Hygienic applications? Meet your approved liquids level solution

Say hello to level measurement for tracking inventory. For production of food or beverages. Or use in the life sciences. With the sanitary approvals and long-term performance stability that you need.

Welcome to liquid level measurement perfection: introducing SITRANS LR250 radar transmitter with a fully encapsulated antenna and FDA-approved USP Class VI TFM 1600 PTFE lens material.

Simple installation using industry-standard process connections, non-contacting reliability, ease of use: see what SITRANS LR250 can do for you.



usa.siemens.com/radar

SITRANS LR250 – your radar solution for liquids and slurries

SITRANS LR250 is your choice for liquid level measurement in storage and process vessels. With its new encapsulated antenna, hygienic applications are no problem for this transmitter. Reliability and improved safety? We have that. A class-leading range of process connections? That too. Welcome to liquid level perfection.

So, what do you need from your level measurement instrument? We're guessing it's exactly what SITRANS LR250 has to offer.

Simple installation

Easily installed on a variety of locations, with smaller process connections – as small as 2" (50 mm). 25 GHz frequency ensures reliable readings even with obstructions in your vessel.

And did we mention the graphical HMI? Making operation simple with plug-and-play setup using the intuitive Quick Start Wizard.

Minimal maintenance

The flush-mounted lens antenna is easy to clean and reduces buildup – no need to remove during clean-in-place (CIP) cycles. Plus, the transmitter is suitable for temperatures up to 170 °C (338 °F).

Approved for use

With EHEDG (EL Class 1 and EL Class 1 Aseptic) and 3-A certification as well as FDA and USP Class VI-approved materials, SITRANS LR250 is ideal for your hygienic, sanitary, or aseptic applications.

True inventory management

Understanding exactly what your storage or process vessel contains means no shutdowns or slowdowns in production – only the highest in product quality and consistency.

Reliable echo profiles

Process Intelligence signal processing for improved measurement reliability and Auto False-Echo Suppression of fixed obstructions.

Flexible communications

Whatever your communications preference, we've got it: HART, PROFIBUS PA, FOUNDATION Fieldbus.



SITRANS LR250 family features

- **Application flexibility** – from sanitary processes to harsh environments, choose from horn, PVDF, or encapsulated antenna designs
- **Easy to install** – small antennas and narrow beams allow installation practically anywhere on your vessel
- **Quick to configure** – Quick Start Wizard for simple setup
- **Process Intelligence** – advanced echo processing for unparalleled performance
- **Reliable and accurate** – extremely high signal and low noise yields high performance, even with low dielectric media. Plus SIL 2 for applications requiring functional safety





SITRANS LR250 Hygienic Encapsulated Antenna	
Order No.	7ML5433
	2-wire, 25 GHz pulse radar level transmitter for continuous monitoring of liquids and slurries in storage and process vessels including hygienic/sanitary environments in the food, beverage, pharmaceutical and fine chemical industries
Range	20 m (66 ft)
Process temperature	-40 to 170 °C (-40 to 338 °F)
Process pressure	Up to 16 bar g (580 psi g), process connection dependent
Key features	<ul style="list-style-type: none"> • Process Intelligence – advanced echo processing for unparalleled performance • Graphical HMI (Human-Machine Interface) • Quick Start Wizard and display diagnostics • Complies with IEC 61508/61511 standard for functional safety (SIL 2) • 3-A, EHEDG EL Class 1 and EL Class 1 aseptic certification with TFM 1600 PTFE-wetted antenna parts (FDA and USP Class VI approved) for hygienic and sanitary environments • SITRANS LR250 hygienic variations: <ul style="list-style-type: none"> • Sanitary Clamp according to ISO 2852 • Aseptic/Hygienic nozzle/ slotted nut (instrument side) to DIN 11864-1 [Form A] • Aseptic/Hygienic flanged to DIN 11864-2 [Form A] • Aseptic/Hygienic Clamp according to DIN 11864-3 [Form A] • Hygienic nozzle/ slotted nut (instrument side) to DIN 11851 • Tuchenhagen Varivent Type F • Tuchenhagen Varivent Type N
Communications and outputs	<ul style="list-style-type: none"> • HART, PROFIBUS PA, or FOUNDATION Fieldbus • Enhanced EDD for SIMATIC PDM, Emerson AMS, SITRANS DTM (for PACTware), 375/475 handheld, for configuration and diagnostics

Find out more:

usa.siemens.com/level

Comprehensive Instrumentation Portfolio

Siemens offers a comprehensive range of process instrumentation for pressure, temperature, flow and level measurement. Pneumatic valve positioners, process protection devices and weighing technology complete the package.

Service and Support: your partner for success

Siemens backs up every instrument with top-of-the-line service and support, including:

- 24/7 technical support
- Field Service personnel with years of experience
- A Quick Ship program for fast replacement of instruments
- State-of-the-art training facilities and CEU credits



Subject to change without prior notice

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