

SIEMENS



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Aggressive chemicals? Say hello to your new liquids level solution

Welcome to liquid level measurement perfection: introducing SITRANS LR250 radar transmitter with a fully encapsulated horn antenna with a TFM 1600 PTFE lens.

Take everything SITRANS LR250 offers: simple installation, non-contacting reliability, ease of use.

Now, add in extreme process conditions including corrosive and aggressive materials. So go ahead, see what SITRANS LR250 can do for you.



Answers for industry.

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 flanged encapsulated antenna, corrosive and other aggressive materials are no problem for this transmitter. Reliability and improved safety? We do that. Higher temperatures or pressures? Those 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).

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 Flanged Encapsulated Antenna	
Order No.	7ML5432
	2-wire, 25 GHz pulse radar level transmitter for continuous monitoring of liquids and slurries in storage and process vessels including corrosive or aggressive materials
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) • Flush-faced TFM 1600 PTFE antenna for aggressive conditions characteristic of acids, alkalis, and other corrosive chemicals • SITRANS LR250 variations: <ul style="list-style-type: none"> • Threaded or flange connections • Stainless steel, Hastelloy (or equivalent), PVDF or TFM 1600 PTFE-wetted antenna parts
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:

siemens.com/sitransLR250

SITRANS LR250 –
discover all that your
liquids level solution
has to offer: visit us
online to see for
yourself.



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