SIEMENS

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A key development in level measurement

Answers for industry.

SITRANS LR560: the first of its kind

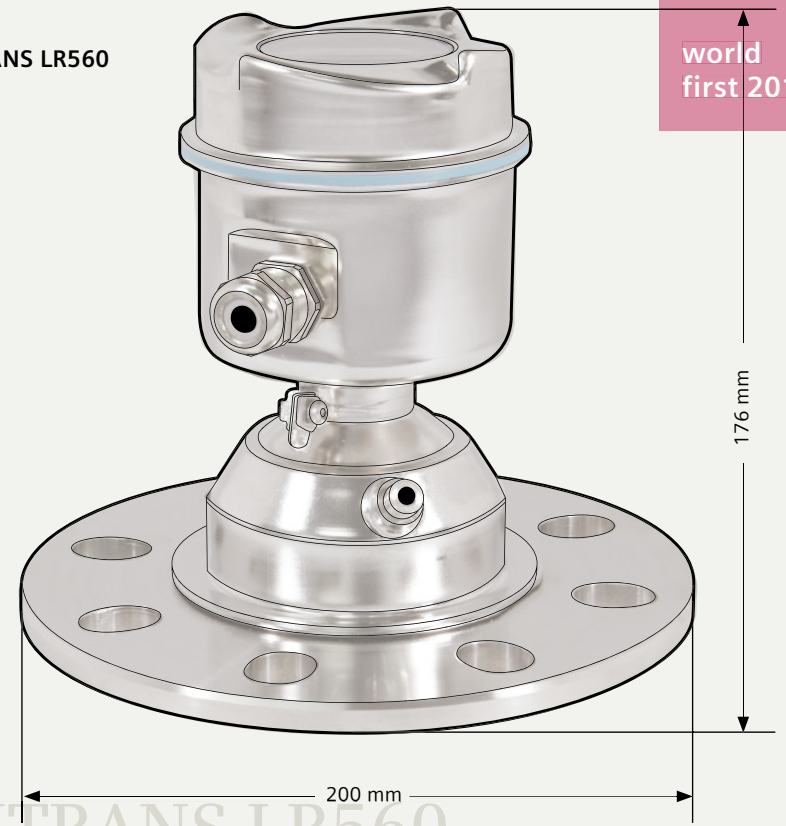
The time has come for a new era in level measurement – ushered in by a global first: SITRANS LR560. The first radar level transmitter ever to operate at a frequency of 78 GHz is setting new standards in its field.

The best of both worlds
SITRANS LR560 is testimony to rapid technological progress in level measurement technology. Our innovation combines the benefits of non-contact radar and guided wave radar measurement, and its frequency – three times higher than that of conventional devices – ensures extremely reliable results, even in demanding applications.

Outstanding in every respect
SITRANS LR560 offers not just an unbeatable frequency of 78 GHz, but also a wide range of other features which make it what it is: state-of-the-art in every respect and the leader when it comes to ultimate reliability in solids measurement. For example, the high operating frequency together with a special compact lens antenna produces an extremely narrow beam angle of just 4 degrees. The advantage: errors caused by standpipes or internal components in the silo are minimized, significantly reducing the costs of installation and commissioning.

SITRANS LR560

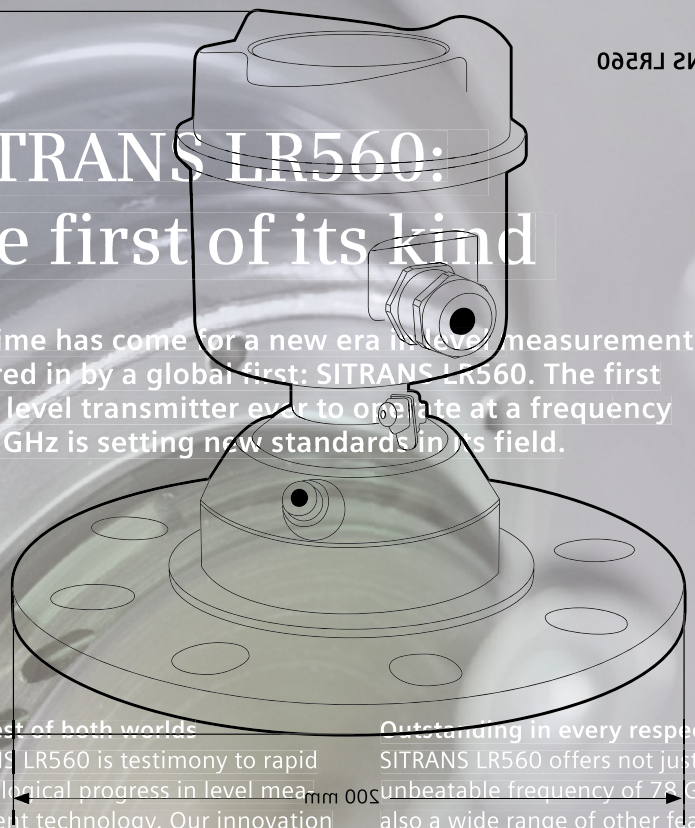
world first 2011



SITRANS LR560

Ever better, more advanced and more efficient: Siemens continues to drive progress in level measurement – and set new standards. The latest example: the SITRANS LR560.

- **Simple!** The use of an innovative lens antenna considerably simplifies installation. Antenna extensions are now no longer necessary, even with long standpipes.
- **Exact!** Absolute precision down to the draw point: the narrow beam (4 °) ensures excellent reflection.
- **User-friendly!** Making commissioning easy: calibrate the device in less than 3 minutes – thanks to the graphical Quick Start Wizard.
- **And much more!**
  - Measuring range of up to 100 m (328 ft)
  - Compact version (installation height of 166 mm)
  - Standard versions available instock
  - HART, Profibus and Foundation Fieldbus communication
  - 2-wire loop powered



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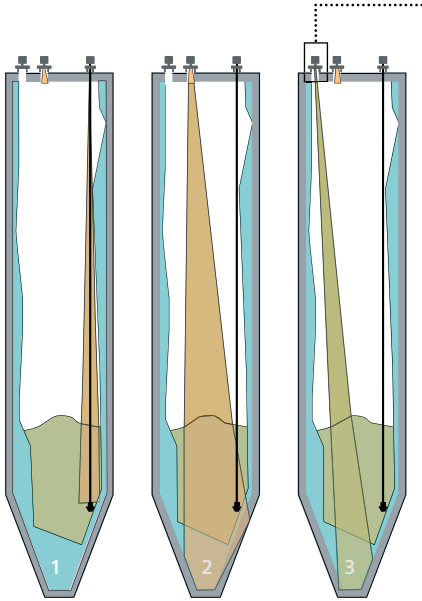
The first choice for most applications

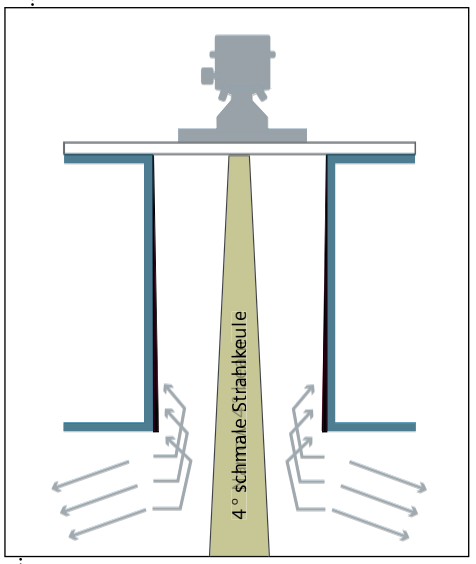
The SITRANS LR560 is a pioneering 2-wire, 78 GHz FMCW radar level transmitter for ranges up to 100 m (328 ft). It can be used for the continuous monitoring of solids in silos. Thanks to its plug-and-play capabilities, the transmitter is ideal for most applications. Even harsh environments such as extreme dust buildup and temperatures up to 200 °C (392 °F) do not affect its incredible performance.

Sophistication down to the last detail

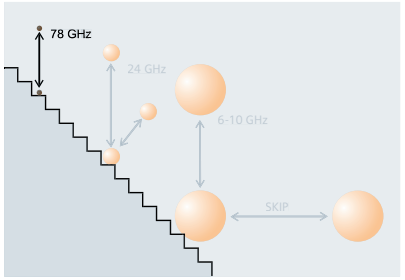
The unique design ensures simple and reliable programming with an intrinsically safe infrared handheld programmer, allowing the enclosure to remain closed in potentially explosive atmospheres. The beam can be easily directed with the aiming flange if necessary to allow level readings in the lower cone area of the silo. What's more, the SITRANS LR560 is truly dirt-repellant: when the transmitter is used in particularly harsh environments, effective lens cleaning is simple with the standard, built-in air purge connection. An optional graphical local display interface is also available, with an intuitive Quick Start Wizard for simple setup and operation. An echo profile display and other diagnostic information are available for diagnostic support. Startup is easy using the Quick Start Wizard; only a few parameters need be set for basic operation.



Non-contact technology offers major advantages
Silo 1: guided wave radar
Silo 2: non-contact measurement but wide beam; measurement affected by false echos caused by caking or fittings



The narrow beam lobe of SITRANS LR560 allows for direct installation on the flange; therefore, the risk of caking, as with the installation of conventional antennas, is very low.



The higher the frequency of the radar transmitter, the more direct the signal reflection. Reliable measurement is thus guaranteed, even with large angles of repose.

Main areas of application

- Cement industry – cement, clinker
- Energy – coal, fly ash
- Chemical industry – plastic granulate and powder
- Food and beverage – grain, flour
- Steel industry – coke, additives
- Pulp and paper industry – wood powder

Switch to the next generation of solid level measurement

Why not contact us to arrange a personal consultation? You can e-mail us at: **lr560.i-ia@siemens.com**.
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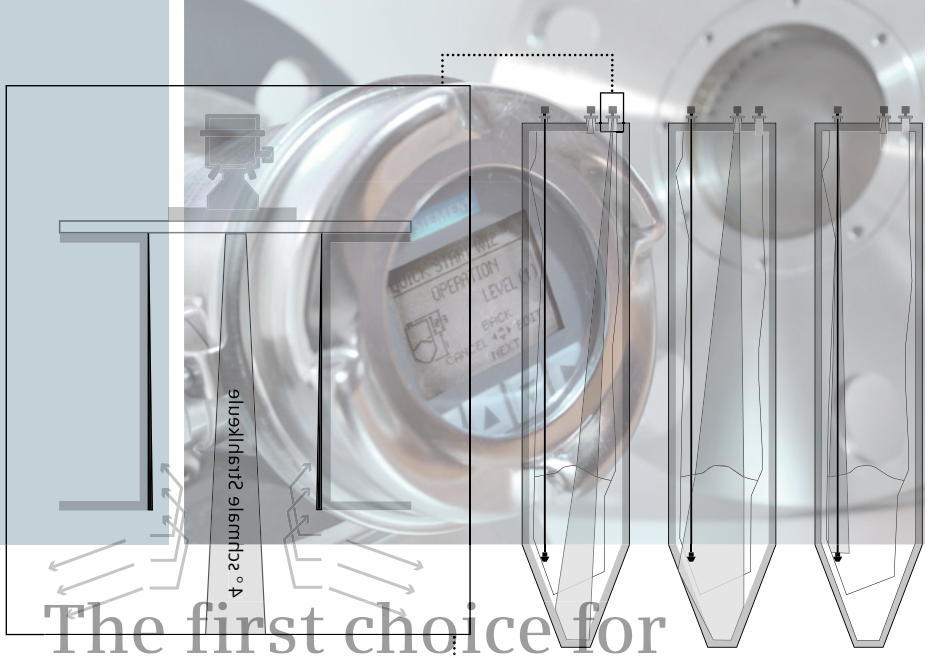

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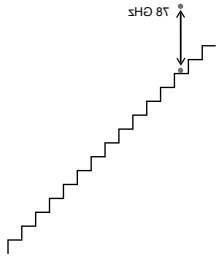
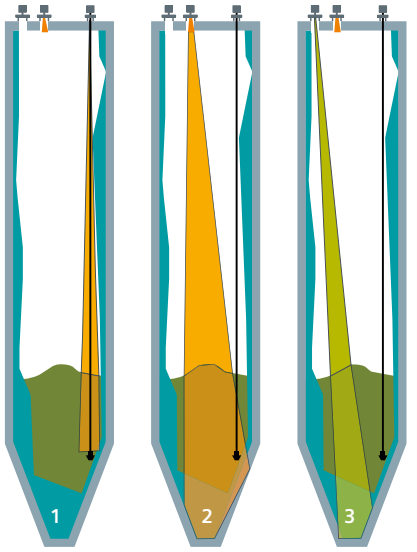
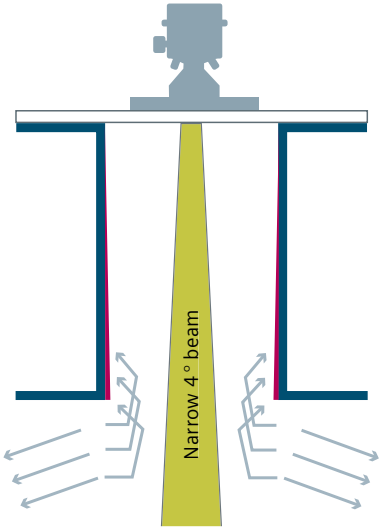
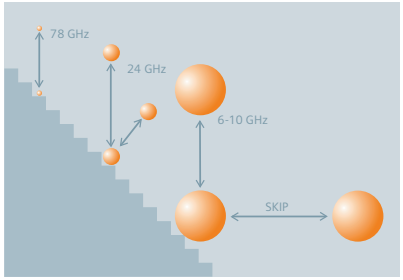




Non-contact technology offers major advantages over other contacting technologies.
Silo 1: guided wave radar
Silo 2: non-contact measurement but wide beam; measurement affected by false echos caused by caking or fittings
Silo 3: SITRANS LR560 non-contact measurement: narrow beam; measurement even into the lower cone area





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