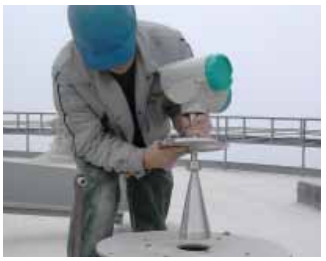
Radar solutions for solids level measurement

with the reliability of Process Intelligence echo processing

SITRANS LR260/LR460

Answers for industry.

SIEMENS



Level measurement solution for solids

Siemens offers two transmitters to meet all your solids level measurement needs. SITRANS LR260 is the 2-wire pulse radar level transmitter of choice for continuous level measurement of typical solids applications. SITRANS LR460 is the 4-wire FMCW transmitter for extreme low dielectric materials, severe dust and high temperatures in vessels up to 100 m (328 ft).

- Easy to install – small horn antenna and narrow beam allows installation practically anywhere on your vessel
- Built-in Easy Aimer – for optimal signal reflection
- Quick to configure – Quick Start Wizard guides you through setup
- Process Intelligence – advanced echo processing for unparalleled performance
- Reliable and accurate – extremely high signal and low noise yields high performance, even on very low dielectric material
- Operational in minutes – infrared handheld programmer for local operation or SIMATIC PDM via HART® or PROFIBUS PA
- Local user interface – standard level and diagnostic information available at a glance

	SITRANS LR260	SITRANS LR460
Power		
	• Nominal 24 V DC, max. 30 V DC, 4 to 20 mA • PROFIBUS PA 15.0 mA	• 100 to 230 V AC ± 15%, 50/60 Hz, 6W (12 VA) or • 24 V DC, +25/-20%, 6W (optional)
Performance		
Range	30 m (98 ft)	100 m (328 ft)
Frequency	25 GHz nominal pulse	24.2 to 25.2 GHz FMCW
Dielectric constant	>1.6	>1.4
Interface		
Analog output	4 to 20 mA, loop powered	Optically isolated 4 to 20 mA
Display (local)	Graphic LCD, with bar graph and echo profile	Alphanumeric LCD
Communications/ programming	• HART • PROFIBUS PA • SIMATIC PDM • Intrinsically safe infrared handheld programmer (local operation)	• HART • PROFIBUS PA • SIMATIC PDM • Intrinsically safe infrared handheld programmer (local operation)
Mechanical		
Enclosure	• Aluminum, polyester powder-coated • Ingress protection: Type 4X/NEMA 4X/ Type 6/NEMA 6, IP67, IP68 • Cable inlet: M20x1.5 or ½" NPT (qty 2)	• Aluminum, polyester powder-coated • Ingress protection: Type 4X/NEMA 4X/ Type 6/NEMA 6, IP67 • Cable inlet: M20x1.5 or ½" NPT (qty 2)
Process connections*	Universal: 2"/50 mm, 3"/75 mm, 4"/100mm, 6"/150 mm with integral Easy Aimer	Universal: 3"/75 mm, 4"/100 mm, 6"/150 mm with integral Easy Aimer
Horn antenna	• 2", 3" or 4" diameter horn • Purge 1/8" NPT connection (optional) • PTFE dust cover (optional)	• 3" or 4" diameter horn • Purge 1/8" NPT connection (optional) • PTFE dust cover (optional)
Process conditions		
Ambient temp.	-40 to 80 °C (-40 to 176 °F)	-40 to 65 °C (-40 to 149 °F)
Process temp.	-40 to 200 °C (-40 to 392 °F)	-40 to 200 °C (-40 to 392 °F)
Approvals		
General	$CSA_{us/c}$, CE, FM	$CSA_{us/c}$, CE, FM
Radio	European Radio (R&TTE), Industry Canada, FCC, C-TICK	European Radio (R&TTE), Industry Canada, FCC, C-TICK
Hazardous areas	CSA, FM, ATEX, IEC Ex	CSA, FM, ATEX, IEC Ex

*Other process connections are available by special request. Specifications are subject to change without notice. HART is a registered trademark of the HART Communication Foundation. SIMATIC PDM and SITRANS are registered trademarks of Siemens AG.

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