



# Radar solutions for solids level measurement

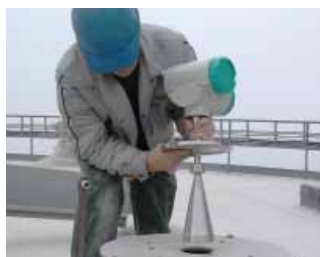
with the reliability of Process Intelligence echo processing



# sitrans lr260/lr460

[www.siemens.com/radar](http://www.siemens.com/radar)

**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
<b>Power</b>		
	<ul style="list-style-type: none"> <li>• Nominal 24 V DC, max. 30 V DC, 4 to 20 mA</li> <li>• PROFIBUS PA 15.0 mA</li> </ul>	<ul style="list-style-type: none"> <li>• 100 to 230 V AC ± 15%, 50/60 Hz, 6W (12 VA) or</li> <li>• 24 V DC, +25/-20%, 6W (optional)</li> </ul>
<b>Performance</b>		
<b>Range</b>	30 m (98 ft)	100 m (328 ft)
<b>Frequency</b>	25 GHz nominal pulse	24.2 to 25.2 GHz FMCW
<b>Dielectric constant</b>	>1.6	>1.4
<b>Interface</b>		
<b>Analog output</b>	4 to 20 mA, loop powered	Optically isolated 4 to 20 mA
<b>Display (local)</b>	Graphic LCD, with bar graph and echo profile	Alphanumeric LCD
<b>Communications/programming</b>	<ul style="list-style-type: none"> <li>• HART</li> <li>• PROFIBUS PA</li> <li>• SIMATIC PDM</li> <li>• Intrinsically safe infrared handheld programmer (local operation)</li> </ul>	<ul style="list-style-type: none"> <li>• HART</li> <li>• PROFIBUS PA</li> <li>• SIMATIC PDM</li> <li>• Intrinsically safe infrared handheld programmer (local operation)</li> </ul>
<b>Mechanical</b>		
<b>Enclosure</b>	<ul style="list-style-type: none"> <li>• Aluminum, polyester powder-coated</li> <li>• Ingress protection: Type 4X/NEMA 4X/ Type 6/NEMA 6, IP67, IP68</li> <li>• Cable inlet: M20x1.5 or 1/2" NPT (qty 2)</li> </ul>	<ul style="list-style-type: none"> <li>• Aluminum, polyester powder-coated</li> <li>• Ingress protection: Type 4X/NEMA 4X/ Type 6/NEMA 6, IP67</li> <li>• Cable inlet: M20x1.5 or 1/2" NPT (qty 2)</li> </ul>
<b>Process connections*</b>	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
<b>Horn antenna</b>	<ul style="list-style-type: none"> <li>• 2", 3" or 4" diameter horn</li> <li>• Purge 1/8" NPT connection (optional)</li> <li>• PTFE dust cover (optional)</li> </ul>	<ul style="list-style-type: none"> <li>• 3" or 4" diameter horn</li> <li>• Purge 1/8" NPT connection (optional)</li> <li>• PTFE dust cover (optional)</li> </ul>
<b>Process conditions</b>		
<b>Ambient temp.</b>	-40 to 80 °C (-40 to 176 °F)	-40 to 65 °C (-40 to 149 °F)
<b>Process temp.</b>	-40 to 200 °C (-40 to 392 °F)	-40 to 200 °C (-40 to 392 °F)
<b>Approvals</b>		
<b>General</b>	CSA <sub>US/CR</sub> CE, FM	CSA <sub>US/CR</sub> CE, FM
<b>Radio</b>	European Radio (R&TTE), Industry Canada, FCC, C-TICK	European Radio (R&TTE), Industry Canada, FCC, C-TICK
<b>Hazardous areas</b>	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. © Siemens Milltronics Process Instruments Inc. 2008.