

# Radar level measurement

New 24 GHz and 80 GHz Free Space Radar (FMCW) from Schneider Electric make radar applications easy



## Features

- Extensive choice of process connections starting from 0.75"
- Lens, Drop and Horn antennas for measuring distances up to 100 m; 328 ft
- Accuracy from  $\pm 2$  mm;  $\pm 0.08$ "
- Can measure products with dielectric constants as low as 1.1
- Quick setup assistant for easy commissioning
- Empty tank spectrum function for eliminating false reflections
- Large backlit LCD display contains 4-button keypad with Hall effect sensors
- Text displayed in 12 languages
- Free PACTware™ DTM with full functionality
- Compatible with WirelessHART Adapter WHA-ADP2
- METAGLAS dual safety seal option
- Works with liquids of changing densities
- Quick start up and commissioning ensures measurement begins out of the box
- Choose your communication: 4...20 mA (HART® 7) / coming soon: FOUNDATION fieldbus, PROFIBUS PA

## Benefits

- Frequency Modulated Continuous Wave (FMCW) technology allows additional reliability with up to 100 times more signals compared to a pulse burst radar
- Full radar lineup allows purchasing all instrument categories (level, flow, pressure, temperature, analytical) from SE
- 80 GHz small beam angle and negligible dead zone allows radar use in almost all applications
- M12 cable connector option lowers labor costs with quick plug and play wiring
- NAMUR NE 107 sensor diagnostics

## Schneider Electric process instrumentation free space radar level transmitter portfolio

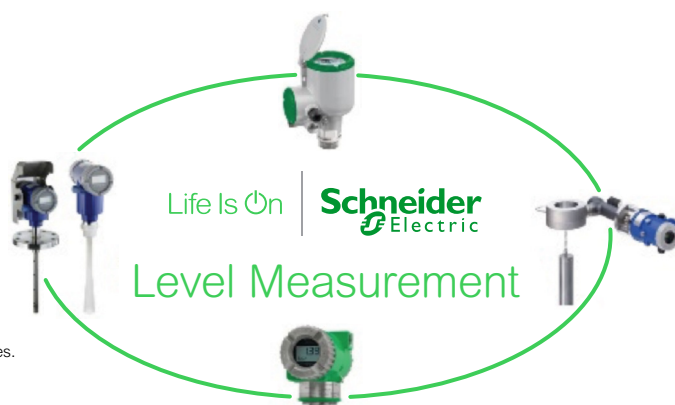


LR01 (10GHz)	LR54 (24GHz)	LR64 (24 GHz)
<ul style="list-style-type: none"> <li>For liquids in storage and process applications</li> <li>Features remote transmitter option for distances up to 100 m; 328 ft and SIL2 option</li> <li>X Band/10 GHz radar, Horn and PP and PTFE Wave Horn antennas</li> <li>Measuring range up to 30 m; 98.4 ft</li> <li>Process conditions up to +250 °C; +482 °F, 40 barg; 580 psig</li> </ul>	<ul style="list-style-type: none"> <li>For liquids in process applications</li> <li>Features proven PP Drop antenna design insensitive to condensation</li> <li>For closed tanks or in open air applications like rivers or dams</li> <li>K Band/24 GHz radar, Horn or Drop antennas</li> <li>Measuring range up to 100 m; 328 ft</li> <li>Process conditions up to +130 °C; +266 °F, 16 barg; 232 psig</li> <li>Optional purging system</li> </ul>	<ul style="list-style-type: none"> <li>For solids from granulates to rocks</li> <li>Proven PP and PTFE Drop antenna insensitive to product build-up and is not affected by the angle of repose</li> <li>K Band/24 GHz radar, Horn or Drop antennas</li> <li>Measuring range up to 100 m; 328 ft</li> <li>Process conditions up to + 130 °C; +266 °F, 16 barg; 232 psig</li> <li>Extremely high dynamics resisting dusty conditions</li> </ul>



LR65 (80 GHz)	LR74 (24GHz)	LR75 (80 GHz)
<ul style="list-style-type: none"> <li>For powders and dusty atmospheres</li> <li>Flush-mounted PEEK Lens antenna hence no intrusion into tank</li> <li>Dynamics for reliable measurement despite dusty conditions</li> <li>Easy installation due to small beam angles</li> <li>W Band/80 GHz radar, Lens antenna</li> <li>Measuring range up to 100 m; 328 ft</li> <li>Process conditions up to +150 °C; 302 °F, 40 barg; 580 psig</li> </ul>	<ul style="list-style-type: none"> <li>For agitated and corrosive liquids in harsh environments</li> <li>Quick coupling housing and dual sealing with METAGLAS® design</li> <li>Proven PTFE and PEEK Drop antenna with flange protection</li> <li>K Band/24 GHz radar, Horn or Drop antennas</li> <li>Measuring range up to 100 m; 328 ft</li> <li>Standard process conditions up to +200 °C; +392 °F, 100 barg; 1450 psig (higher on request)</li> </ul>	<ul style="list-style-type: none"> <li>For liquids in narrow tanks with internal obstructions</li> <li>Features small beam angle and negligible dead zone</li> <li>Works well with agitators as well as long nozzles</li> <li>PEEK antenna insensitive to deposits</li> <li>W Band/80 GHz radar, flush-mounted Lens antenna</li> <li>Measuring range up to 100 m; 328 ft</li> <li>Process conditions up to +150 °C; +302 °F, 40 barg; 580 psig</li> </ul>

Save valuable time specifying and buying online directly from Schneider Electric at [www.buyautomation.com](http://www.buyautomation.com) or work with your qualified representative to select a model. Find your contact at [www.buyautomation.com/OfficeLocator/](http://www.buyautomation.com/OfficeLocator/)



© 2020 Schneider Electric. All Rights Reserved. Life Is On | Schneider Electric is a trademark and the property of Schneider Electric SE, its subsidiaries and affiliated companies.

• 998-20794299