

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 ± 2 mm; ± 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"> For liquids in storage and process applications Features remote transmitter option for distances up to 100 m; 328 ft and SIL2 option X Band/10 GHz radar, Horn and PP and PTFE Wave Horn antennas Measuring range up to 30 m; 98.4 ft Process conditions up to +250 °C; +482 °F, 40 barg; 580 psig 	<ul style="list-style-type: none"> For liquids in process applications Features proven PP Drop antenna design insensitive to condensation For closed tanks or in open air applications like rivers or dams K Band/24 GHz radar, Horn or Drop antennas Measuring range up to 100 m; 328 ft Process conditions up to +130 °C; +266 °F, 16 barg; 232 psig Optional purging system 	<ul style="list-style-type: none"> For solids from granulates to rocks Proven PP and PTFE Drop antenna insensitive to product build-up and is not affected by the angle of repose K Band/24 GHz radar, Horn or Drop antennas Measuring range up to 100 m; 328 ft Process conditions up to + 130 °C; +266 °F, 16 barg; 232 psig Extremely high dynamics resisting dusty conditions



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

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