

# LR75 (80 GHz) free space radar

Easy liquid level measurement



## Benefits

The focused, small radar beam of Schneider Electric's FMCW 80 GHz radar technology allows installations in virtually any location and tank size. The small beam angle and negligible dead zone of this FMCW radar level transmitter makes it the premium choice for liquids in small and narrow tanks with internal obstructions like agitators or heating coils, as well as tanks with long nozzles. It can even measure through tank roofs made of non-conductive material.

- Easily adaptable to retrofit existing applications – can be installed close to tank wall
- M12 cable connector option lowers labor costs with quick plug and play wiring
- Compatible with ball valves for complete process safety isolation
- Quick intuitive set-up with push buttons or PACTware™ DTM
- Compatible with WirelessHART Adapter WHA-ADP2

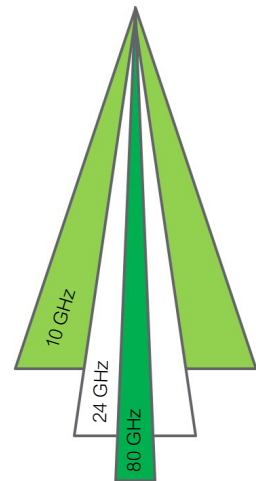
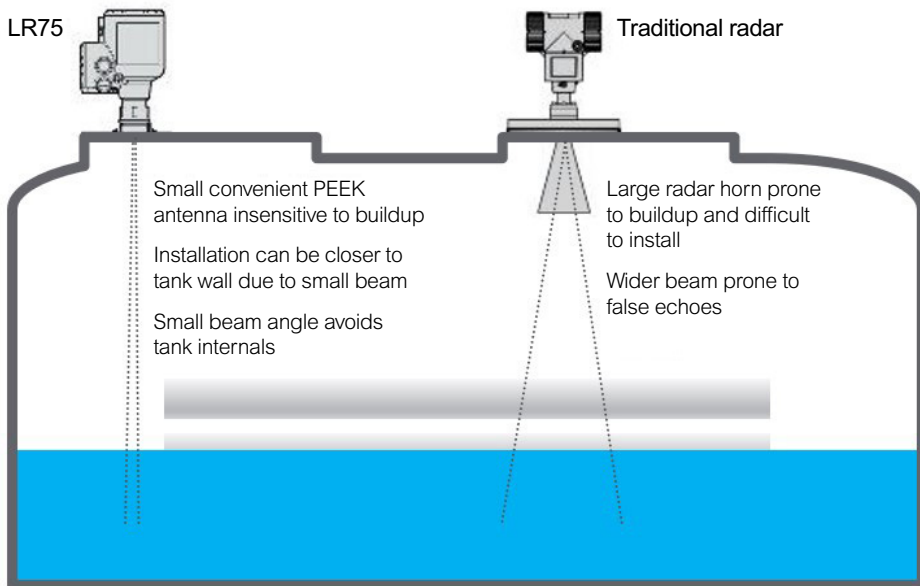


*Tank height, 0% and 100% level are all that's needed for setup.*

## Unique features

- 2-wire, loop-powered, with HART 7
- Small beam angle due to 80 GHz
- PEEK flange protection against corrosive media – insensitive to deposits
- 112 mm / 4.4" antenna extension for long nozzle
- Empty tank spectrum function
- 0.08" / ±2 mm accuracy
- Wide range of flange or thread connections
- Large, backlit LCD screen
- NAMUR NE 107 sensor diagnostics
- Dual Seal system for cQPSus-approved devices

EcoStruxure™ Process Instrumentation's level radar transmitters offer increased performance with the highest operational efficiency and reliability in the industry.



Compared to traditional 10 GHz and 24 GHz – 80 GHz offers increased signal strength and focusing

### Approved vendor list (AVL) specifications

Manufacturer:	Schneider Electric
Model number:	LR75
Power supply:	12...30 V DC (Exi), 16...36 V DC (Exd), 2-wire
Technology type:	Frequency Modulated Continuous Wave (FMCW) Radar
Measuring type:	Height measurement – Radar W-band frequency, 80 GHz
Process temperature:	-50...+200 °C/-58...+392 °F
Process pressure:	-1...40 barg/-14.5...580 psig
Accuracy:	±2 mm/±0.08"
Output/communication protocol:	4...20 mA (HART® 7) Coming soon: FOUNDATION fieldbus, PROFIBUS PA
Process connection:	Thread and Flange
Housing:	IP66, 68; 0.1 barg/1.45 psig
Level measuring range:	0...100 m/0...328 ft
Antenna type:	Lens (PEEK)
Local display:	Backlit LCD with integrated keypad
Safety:	Developed acc. to SIL2/3, IEC 61508 – 2010. The SIL approval is in the process of validation
Suggested applications:	Level measurement of liquids such as hydrocarbons, LPG, ethylene, corrosion inhibitors, foaming agent, drilling mud, slop oil, solvents, acids, urea, chlorine, resins, paint, ink, lubricant oil, lime milk.

se.com

Schneider Electric  
38 Neponset Avenue  
Foxboro, MA 02035  
Toll free: 1-866-746-6477  
Global: +1-508-549-2424  
<https://pasupport.schneider-electric.com>

Literature:  
PSS: 2A-7A4A  
Master Instruction: 023-153  
Parts List: 011-001

To purchase: find your local rep at <https://www.buyautomation.com/>

