

## **Benefits**

Designed for liquids in harsh environments such as tanks with agitators containing corrosives, in processes with fast changing levels (≤60 m/min; 196.85 ft/min), in process tanks requiring high accuracy, this FMCW radar level transmitter has everything to solve tricky situations and replaces obsolete radars in high-end applications.



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

- M12 cable connector option lowers labor costs with quick plug and play wiring
- Coupling housing system allows safe installation install the antenna separately from the electronics
- Process safety with Metaglas<sup>®</sup> second sealing barrier for toxic and dangerous products
- Quick intuitive set-up with push buttons or PACTware™ DTM
- Compatible with WirelessHART Adapter WHA-ADP2

## Unique features

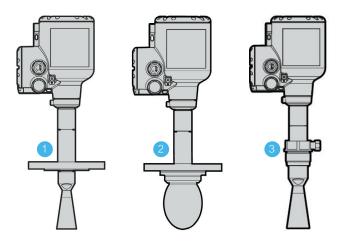
- 2-wire, loop-powered, with HART 7
- Up to 1450 psig (100 barg) process pressure
- Empty tank spectrum function
- 0.08" / ±2 mm accuracy
- Wide range of flange or thread connections
- Large, backlit LCD screen
- Dual Seal system for cQPSus-approved devices
- NAMUR NE 107 sensor diagnostics

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

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Selecting the proper antenna is one of the most important steps in selecting a 24 GHz radar. The versatility of the LR74's antenna options allows for use in several applications.

- Proven PTFE and PEEK Drop antennas:
  - Insensitive to condensation
  - Small beam angle (4° with DN150; 6" PTFE Drop)
  - Ellipsoidal shape and smooth surface to reduce scaling
  - Flange plate protection for corrosive media
  - New DN100; 4" PTFE Drop antenna measures up to 80 m; 262.5 ft
- Metallic Horn antenna DN200; 8" for measuring distances up to 100 m; 328 ft
- · Purging system for metallic Horn antenna



Metallic Horn Antenna



Drop Antenna with Flange and Flange Plate Protection



3 Threaded Connection for Purging System

Approved vendor list (AVL) specifications	
Manufacturer:	Schneider Electric
Model number:	LR74
Power supply:	1230 V DC (Exi), 1636 V DC (Exd), 2-wire
Technology type:	Frequency Modulated Continuous Wave (FMCW) Radar
Measuring type:	Height measurement – Radar K-band frequency, 24 GHz
Process temperature:	-50+200 °C/-58+392 °F (higher on special request)
Process pressure:	-1100 barg/-14.51450 psig (higher on special request)
Accuracy:	±2 mm/±0.08"
Output/communication protocol:	420 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:	0100 m/0328 ft
Antenna type:	Metallic Horn (316L), Drop (PEEK), Drop (PFTE)
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:	Measurement of liquids such as solvents, alcohols, acids, bases, condensates, liquefied gases, hydrocarbons, benzene, butadiene, ethylene, propylene, fuels, hydraulic oil, molten salt, molten steel, molten sulphur, additives.

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Literature: PSS: 2A-7A3A

Master Instruction: 023-151

Parts List: 011-001

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

