

Selection Guide - Radar Level Instrumentation

	LG01 Guided-Wave Radar	LR01 Free-Space Radar 10 GHz FMCW	LR54 Free-Space Radar 24 GHz FMCW	LR64 Free-Space Radar 24 GHz FMCW	LR74 Free-Space Radar 24 GHz FMCW	LR65 Free-Space Radar 80 GHz FMCW	LR75 Free-Space Radar 80 GHz FMCW
Why choose this technology	<ul style="list-style-type: none"> Liquid and solid applications Applications with foam 	<ul style="list-style-type: none"> Liquid applications Applications with foam 	<ul style="list-style-type: none"> Liquid applications 	<ul style="list-style-type: none"> Solids applications Applications with larger solids material such as granulates or rocks Installations with heavy buildup potential 	<ul style="list-style-type: none"> Liquid applications Agitated and corrosive media Dual safety seal requirements High pressure / high temperature applications 	<ul style="list-style-type: none"> Solids applications Applications with powders and dust High and narrow silos installations Installation close to tank wall 	<ul style="list-style-type: none"> Liquid applications Very low dielectric constants Applications with long nozzles and internal obstructions Installation close to tank wall
Contact/Non-Contact measurements	contact	non-contact	non-contact	non-contact	non-contact	non-contact	non-contact
Liquid (clean) level	Good	Good	Good	No	Good	No	Good
Interface (liquid/liquid) (1)	Limited	Limited	Limited	No	Limited	No	Limited
Applications with foam	Good	Limited	Limited	No	Limited	No	Limited
High viscosity or waxy fluids	Limited	Good	Good	No	Good	No	Good
Buildup/Coating	Limited	Limited	Good	Good	Good	Good	Good
Slurries	Limited	Good	Good	No	Good	No	Good
Wavy/turbulence	Good	Good	Limited	No	Good	No	Limited
Corrosive media (15)	Limited	Good	Limited	No	Good	No	Limited
Low dielectric <2.0	Good	Limited	Limited	Limited	Limited	Good	Good
Temperature up to 392°F (200°C)	Good	Good	No	No	Good	Good	Good
Pressure up to 1450 psig (100 barg)	No	No	No	No	Good	No	No
Solids - rocks and granulates	Good	No	No	Good	No	Limited	No
Solids - powders and dusty atmosphere	Good	No	No	Limited	No	Good	No
Agitator/obstacles in way of measurement	No	Good	Limited	Limited	Limited	No	No
High, long narrow nozzles	Limited	No	Limited	Limited	Limited	Good	Good
Small tank height 8" (20cm)	No	No	Limited	No	Limited	No	Good
Stilling wells and bypass chambers	Good	Good	Good	No	Good	No	Limited
Open pit / Open air (2)	Good	No	Good	Good	Good	Good	Good
Mount outside and measure through non-conductive (plastic) tanks (2)	No	Limited	Good	No	Good	No	Good
Side of tank connection/entry	No	Good	No	No	No	No	No

(1) all radar can be used as part of an interface system - must be coupled with differential pressure or multivariable transmitter and PID controller such as SCADAPack™ 4102
(2) when using any type of radar in an open vessel, check local regulations for rules/laws regarding potential stray radar emissions

Schneider Electric Systems USA, Inc.
38 Neponset Ave.
Foxboro, MA 02035
www.se.com/us/level/

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Global Customer Support
Inside U.S.: 1-866-746-6477
Outside U.S.: 1-508-549-2424
Email: fielddevices-support@se.com

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