Application Data Sheet

Guided Microwave Radar

Date: _____

Refining - Continuous Level

Company Name:	Customer Contact Name:
Customer Address:	Phone and Fax:
City, State, Zip:	Cell Phone:
Sales Person/Rep:	Email:
Representative Firm:	RFQ (request for quotation) :

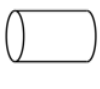
Process Name/Description:	Tag Number:
Process Material*:	Dielectric Constant:
*What is the pour point?	Specific Gravity: ◯ °F ◯ °C

Process Information

1. Process Temperature Range: Min: _____ Max: _____ ◯ °F ◯ °C
2. Process Pressure Range: Min: _____ Max: _____ ◯ psig ◯ bar
3. Area Classification: ☐ General Purpose ☐ Class 1 Div. 1 ☐ Class 1 Div. 2
4. Liquid Buildup on Vessel Walls: ☐ No ☐ Yes -- Thickness: _____ ◯ in ◯ mm ◯ other _____
5. Agitation/Turbulent Vessel: ☐ No ☐ Yes -- RPM, if known: _____
6. Liquid surface condition -- does bubbling and/or sublimation occur? _____
7. Foam Layer Height: _____ ◯ in ◯ mm ◯ other _____
8. Must measure foam height? ☐ No ☐ Yes - type of foam: ◯ Water-based ◯ Hydrocarbon
9. Interface: ☐ No ☐ Yes Upper dK: _____ Lower dK: _____
10. Fully Submerged Probe: ☐ No ☐ Yes - FX61 can be used.
11. Is the process heat-traced? ☐ No ☐ Yes - type: ◯ 150# Steam ◯ 450# Steam ◯ Electric ◯ Other
12. Will level change be faster than 3 ft/min? ☐ No ☐ Yes

Vessel

Please provide a detailed drawing/sketch of the vessel on the reverse side of the form.

13. Vessel Height: _____ ◯ in ◯ ft ◯ other _____
14. Vessel Diameter/Width: _____ ◯ in ◯ ft ◯ other _____
15. Shape of Vessel: ☐  ☐  ☐  ☐  ☐  ☐ Other: Please Sketch
16. Shape of Vessel Bottom: ☐ Flat ☐ Dished
17. Vessel Material of Construction: ☐ 316 SS ☐ Carbon Steel ☐ Glass-lined ☐ Plastic ☐ Other
18. Is the vessel lined? ☐ No ☐ Yes -- material: _____
19. Where is the process connection located? _____
20. Size/Type of Process Connection: _____
21. Is the guided microwave radar probe contained in an external chamber? ☐ No ☐ Yes (Recommended min. diameter is 3")
22. What is the pipe schedule? _____

23. Obstructions in the Vessel: ☐ No ☐ Yes -- what is the obstruction? _____

24. Vessel Wall Surface Finish: _____

Sensor/Probe

25. Preferred/Specified Probe Material: _____

26. Probe Type: ☐ Cable ☐ Rod ☐ Coaxial (Not recommended in bridles or applications prone to buildup)

27. Is overhead clearance adequate for installation of gauge and antenna system? ☐ Yes ☐ No

28. Sensor Type: ☐ 2-wire ☐ 4-wire ☐ Other _____

29. Communication Protocol: ☐ 4…20mA/HART ☐ Fieldbus -- Host system: _____

30. Output Settings: ☐ Standard/4…20mA ☐ Other _____

31. Failure Mode upon Loss of Level Signal: ☐ 22mA ☐ 3.6mA ☐ Hold Last Value

32. Preferred Sensor Transmitter: _____

33. Power Input: _____

34. Display: ☐ Remote ☐ Integral ☐ None

35. Display Value: ☐ Distance ☐ Level ☐ Percent ☐ Other _____

36. Relay: ☐ No ☐ Yes -- quantity: _____

Vessel Data

Please answer the questions related to the vessel that most closely represents your application.

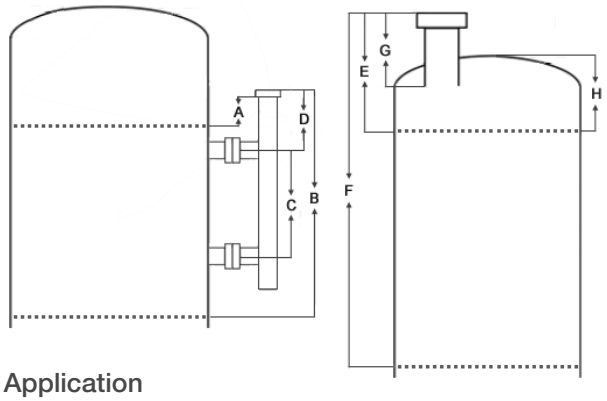
Bridle Application

37. Distance from Bridle Flange to 100% Line (A): _____

38. Distance from Bridle Flange to 0% Line (B): _____

39. Distance from Tap to Tap (C): _____

40. Distance from Bridle Flange to Top Tap (D): _____



Tank Application

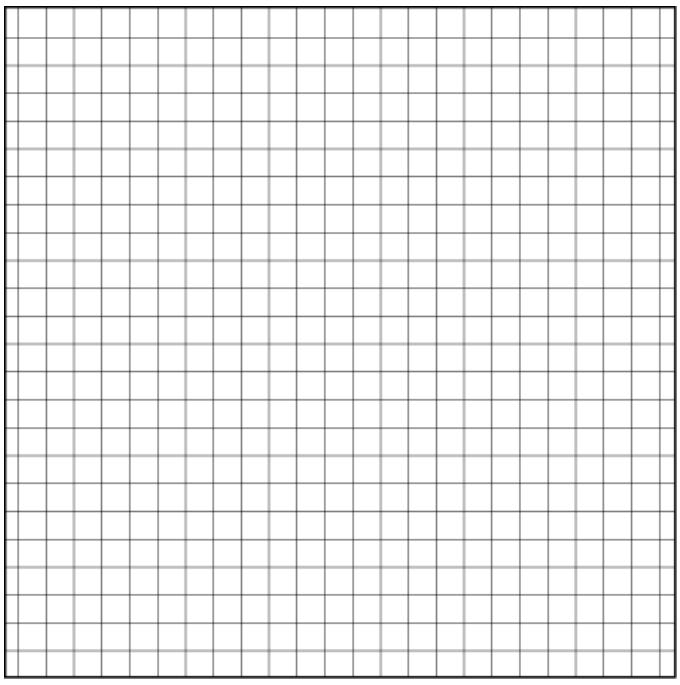
41. Distance from Flange to 100% Line (E): _____

42. Distance from Flange to 0% Line (F): _____

43. Height of the Mounting Nozzle (G): _____

44. Distance from Vessel Top to 100% Line (H): _____

Application or Vessel Sketch



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