

Radiometric Density

Company Name: _____	Customer Contact Name: _____
Customer Address: _____	Phone and Fax: _____
City, State, Zip: _____	Cell: _____
Sales Person/Rep.: _____	Email: _____
Representative Firm: _____	Tag Number: _____

Required Information

1. What does the customer require from the measurement?

2. Process Description/Name: _____
 Enter information using either the Solution Application Method (minimum and maximum density values)
 OR the Slurry Application Method (enter carrier and solids density values along with desired solids % range)
 Solution Application Method: Density Values
 3. Density Range: 4 mA= _____(min) 20 mA _____(max) kg/m³ SPG lb/ft³ API Other: _____
 Slurry Application Method: Solids % Output % solids weight/volume
 4. Carrier Density: _____ kg/m³ SPG lb/ft³
 5. Solids Density: _____ kg/m³ SPG lb/ft³
 6. Solids Measurement Range: 4 mA= _____ (e.g. 0%) 20 mA= _____ (e.g. 60%)

Pipe Information (Required for Every Application)

Pipe Wall Dimensions				in	mm
	Material	Density	Units	Thickness	
Pipe					
Insulation					
Liner					

7. Does process build up on vessel wall: Yes* No *If yes how much? _____ in mm
8. What is the typical operating point? _____
9. Nominal Pipe Size: _____ and Schedule: _____ or I.D.: _____ in mm
10. Triangle Rankings (in order of importance, 1 is most important):
 Fine Resolution: _____
 Fast Response: _____
 Low Radiation: _____

The above information must be provided for reliable sizing.

Additional Application Information

11. Process Temp: Max: _____ Operating: _____ °F °C
12. Pressure: Max: _____ Operating: _____ psig bar
13. Do any of the above parameters change during operation? Yes* No
 *If yes, which parameter(s) and what are their ranges? _____
14. Is this measurement used for: Indication Control SIS/Safety Shutdown

Electronics

15. Area Classification: _____ (Class/Zone/Division) or General Purpose
16. Ambient Temperature Range: Min: _____ Max: _____ °F °C
17. Input Power: 24V DC 110V AC 220V AC
18. Output: 4 ... 20 mA/HART Foundation Fieldbus Relay
19. Do you want the gauge to provide intrinsically safe output? Yes No

Radiation Information

20. Maximum Field Near Source Holder (5 mR @ 12 in Standard): _____ mR uSv @ _____ in mm
21. Will the detector be exposed to external X-ray radiation during operation? Yes No
22. Does the customer have a license to possess/use radioactive material? Yes No

Special Applications

23. Do you want the process output referenced to a fixed reference temperature? Yes* No
 *If yes, Reference Temperature: _____ °F °C Process Temperature Coefficient: _____ °F °C
24. Do you want the process output to be mass-flow? Yes* No
 *If yes: Type: Dry Solids Total Mass
 Flowmeter Output: Current Frequency Voltage
 Flowmeter Calibrated Range: 0% signal _____ = _____ flow gpm lpm
 100% signal _____ = _____ flow gpm lpm

Additional Information

Sketch Vessel or Application Here

If vessel drawings are available, please provide.

Please provide a current copy of your current radioactive materials license, if available.