Application Data Sheet

Date: _____

Nuclear Interface Profile — Multi-Point Density Array

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

Process Material

1. Description/Name: _____
2. Density ranges: ○ SG ○ kg/m3 ○ lb/ft3
   (Lowest) Phase 1: Low: _____ High: _____
   Phase 2: Low: _____ High: _____
   Phase 3: Low: _____ High: _____
   Phase 4: Low: _____ High: _____
3. Process temp.: Max: _____ Operating: _____
   ○ °F ○ °C
4. Process pressure: Max: _____ Operating: _____
   ○ psig ○ bar
5. Do any of the above parameters change during operation?
   ○ Yes* ○ No
   *If yes, which parameter(s) and what are their ranges? _____
6. Process buildup on vessel wall: ○ Yes* ○ No
   *If yes, how much: _____ ○ in ○ mm

Drywell

13. Drywell: ○ Customer supplied ○ VEGA supplied
    Pipe size _____ Schedule _____
    13a. Drywell Material Requirements:
    ○ Stainless Steel ○ Other _____
    13b. Piping standard: _____
    13c. Includes: ☐ Radiograph welds ☐ Hydrostatic test
    ☐ Liquid penetrant welds ☐ Other
    13d. Vessel design pressure: _____ ○ psi ○ bar
    13e. Vessel design temperature: _____ ○ °F ○ °C
14. Vessel nozzle for mounting (Provide vessel drawing)
    ○ Nozzle(s) available ○ Identify available nozzle(s) _____
    New nozzle added if required: ○ Yes ○ No

Vessel (Please provide vessel drawing)

7. New or existing vessel? ○ New ○ Existing
   Shape of vessel: ○  ○ 
   ○ Other: Please sketch
   7a. Vessel ID: _____ ○ in ○ mm
   7b. Vessel Material: _____
   Wall thickness in measurement area: _____
   7c. Vessel insulation: ○ Yes ○ No
   Material thickness: _____
   Material and density: _____
   7d. Vessel jacket: ○ Yes* ○ No
   *If yes, describe: _____
   7e. Vessel internal obstructions: ○ Yes* ○ No
   *If yes, describe: _____
8. Height of process levels (from vessel bottom): ○ in ○ mm
   (Lowest) Phase 1: Min: _____ Max: _____
   Phase 2: Min: _____ Max: _____
   Phase 3: Min: _____ Max: _____
   Phase 4: Min: _____ Max: _____
9. Measurement span from lowest measurement point to highest measurement point: _____
   See diagram point "A" ○ in ○ mm
10. Lowest measurement point elevation (from vessel bottom):
    See diagram point "B" _____ ○ in ○ mm
11. Number of desired density measurements within span:
    See diagram point "C" _____
12. Vessel height clearance restriction: ○ Yes* ○ No
    See diagram point "D"
    *If yes, height: _____ ○ in ○ mm

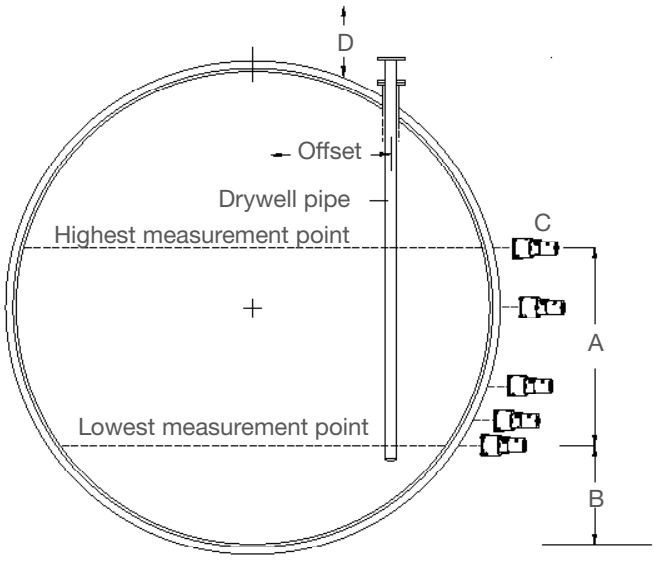
Electronics

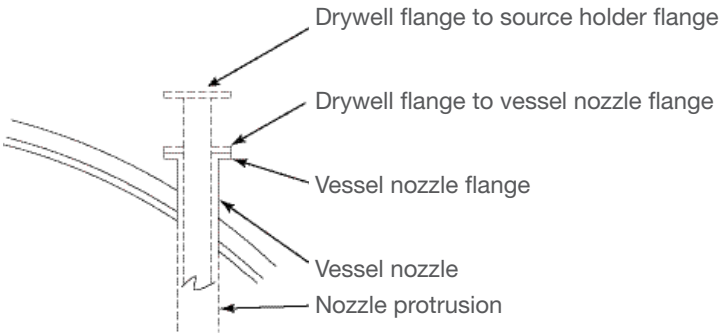
15. Area classification: _____ (Class/Zone/Division) or ○ without
16. Ambient temperature range: Min: _____ Max: _____ ○ °F ○ °C ○ Indoors ○ Outdoors
17. Input power: ○ 110 VAC ○ 220 VAC ○ 24V DC
18. Display: ○ Remote User Interface Display ○ Integral ○ None

Radiation Specification

19. Will the detector be exposed to external X-ray radiation during operation? ○ Yes ○ No
20. Does the customer have a license to possess/use radioactive material? ○ Yes ○ No
21. Control area for source holders: _____ ○ mR ○ µSV at _____ ○ in ○ mm
22. Are there potential external obstructions in the detector mounting area? ○ Yes* ○ No
    *If yes, describe: _____
23. Rank the following by importance (1-4 Highest to Lowest):
    Best Density Resolution _____ Fast Response Time _____ Low Radiation _____ Low Price _____

Diagrams





Nozzle flange size: _____ Flange rating: _____

Nozzle height: _____ Nozzle ID: _____

Nozzle protrusion: ○ Yes* ○ No

*If yes, depth: _____

Nozzle offset from center line: _____ ○ in ○ mm

Please use this diagram to answer questions 9-12 on page 1.

A. Measurement span

B. Elevation from bottom of vessel

C. Number of sensors

D. Vessel height clearance restriction

Additional Information

61035-EN-140321