



Multiphase Flow Instrumentation

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Application Data Sheet

Name: _____ Phone: _____ Ext: _____
Title: _____ Mobile: _____
Company: _____ Email: _____
Address _____ City: _____ State: _____ Zip: _____
Country: _____

1. Detailed Description of Application Including Desired Measurements & Flowmeter Quantity:

Measurements: [] Flow Rate [] Volume Fraction [] Velocity [] Velocimetry [] Imaging

2. Material Information by Phase - Fill out red values at minimum.

(Phases are typically gas/solid, gas/liquid, or liquid/solid but can be solid/solid or liquid/liquid if the two materials have different dielectric constants and are immiscible)

Phase 1
Material: _____ Bulk Density: _____ Units: _____
State: [] Gas [] Liquid [] Solid
Flow Rate: Min: _____ Max: _____ Nominal: _____ Units: _____
Velocity: Min: _____ Max: _____ Nominal: _____ Units: _____
Variability: [] Continuous Process [] Batch Process On and Off Cycle Times: _____
Temperature: Min: _____ Max: _____ Operating: _____ Units: _____
Pressure: Min: _____ Max: _____ Operating: _____ Units: _____
Particle Size: Min _____ Max: _____ Nominal: _____ Units: _____
Concentration: Min%: _____ Max%: _____ Nominal%: _____ Mass/Vol: _____
Parameters: Dielec. Constant: _____ Conductivity: _____ Viscosity: _____
(if known) Salinity Min: _____ Water Content Max: _____ Min: _____
Max: _____

Phase 2
Material: _____ Bulk Density: _____ Units: _____
State: [] Gas [] Liquid [] Solid
Flow Rate: Min: _____ Max: _____ Nominal: _____ Units: _____
Velocity: Min: _____ Max: _____ Nominal: _____ Units: _____
Variability: [] Continuous Process [] Batch Process On and Off Cycle Times: _____
Temperature: Min: _____ Max: _____ Operating: _____ Units: _____
Pressure: Min: _____ Max: _____ Operating: _____ Units: _____
Particle Size: Min _____ Max: _____ Nominal: _____ Units: _____
Concentration: Min%: _____ Max%: _____ Nomina%: _____ Mass/Vol: _____
Parameters: Dielec. Constant: _____ Conductivity: _____ Viscosity: _____
(if known) Salinity Min: _____ Water Content Max: _____ Min: _____
Max: _____

Phase 3 (If Applicable)			
Material:		Bulk Density:	Units: _____
State:	<input type="checkbox"/> Gas <input type="checkbox"/> Liquid		<input type="checkbox"/> Solid
Flow Rate:	Min: _____ Max: _____	Nominal:	Units: _____
Velocity:	Min: _____ Max: _____	Nominal:	Units: _____
Variability:	<input type="checkbox"/> Continuous Process <input type="checkbox"/> Batch Process	On and Off Cycle Times: _____	
Temperature:	Min: _____ Max: _____	Operating:	Units: _____
Pressure:	Min: _____ Max: _____	Operating:	Units: _____
Particle Size:	Min _____ Max: _____	Nominal:	Units: _____
Concentration:	Min%: _____ Max%: _____	Nominal%:	Mass/Vol: _____
Parameters:	Dielectric Constant: _____	Conductivity: _____	Viscosity: _____
(if known)	Salinity Min: _____ Max: _____	Water Content Max: _____	Min: _____

3. Pipe/Tube Information:

Pipe/Tube Size:	ID: _____	OD: _____	Wall: _____	Units: _____
Material:			Schedule:	
Sensor Type:	<input type="checkbox"/> Inline Sensor	<input type="checkbox"/> Clamp-On Sensor		
Fittings:	(Inline Sensors Only – Tube Stubs Standard)			
Orientation:	<input type="checkbox"/> Vertical	<input type="checkbox"/> Horizontal	<input type="checkbox"/> Other: _____	

ECVT Sensors Require Non-Conducting (i.e. Non-Metallic) Pipe Walls.

Please List Acceptable Materials (Examples: PEEK, PVC, PTFE, etc.): _____

4. Hazardous Area Classification: Electronics Must be Located Within 14 feet of Sensor

Sensor: _____ Electronics Enclosure: _____

5. Electronic Enclosure:

Type:	<input type="checkbox"/> Laboratory (Table-Top)	<input type="checkbox"/> NEMA 4 (Wall-Mount)
	<input type="checkbox"/> NEMA 4X (Stainless Steel)	<input type="checkbox"/> NEMA 7 (Hazardous Area)
Location:	<input type="checkbox"/> Indoor	<input type="checkbox"/> Outdoor
Power:	<input type="checkbox"/> 9-36 VDC	<input type="checkbox"/> 100-240 VAC
Output:	<input type="checkbox"/> 4-20mA <input type="checkbox"/> RS-422	<input type="checkbox"/> 4Sense Imaging Software