Radar Tank Gauging

Application Data Sheet



In order to specify the correct instrument for your application please complete all fields for each tank.	Tank What type of tank will the instrument be installed on?	Communications Output What primary output protocol is required?
Completed By:	☐ Cone/Fixed ☐ Sphere	☐ Profibus ☐ Foundation Fieldbus
	☐ Internal or ☐ External floating roof	☐ 4-20 mA HART Ex d/XP
Company:	☐ Horizontal or ☐ Vertical cylinder	☐ 4-20 mA HART Ex i/IS
Tel:	Tank ID#:	☐ Mark/Space
E-mail:	Nozzle height (N): Maximum fill level (F):	RS-485 MODBUS Enraf GPU Bi- Phase Mark
Date:	Tank shell height (T):	☐ TRL/2 ☐ L&J Tankway ☐ V1
	Tank diameter:	☐ WM550
Notes:	Mounting What is the type and size of the nozzle connection?	Other: What secondary output protocol is
Application	Flange size:	required?
What product is stored in the tank?	Flange class:	4-20mA HART Ex d/XP
	☐ ASME ☐ Threaded NPT; Size ☐ DIN	4-20mA HART Ex i/IS
Dielectric Constant:	☐ Tri-clamp ☐ Other:	Relay outputs 2 4 6
What accuracy is required?	Distance from:	☐ RS-485 MODBUS ☐ Ex d/XP 1x 4-20mA HART
±0.5 mm ±1 mm ±2 mm	- flange to tank entry (H):	Ex d/XP 1x 4-20mA HART
±6 mm	- tank wall (W):	☐ Ex i/IS 1x 4-20mA HART
Custody Transfer Yes No	Is the flange parallel to the product surface? Yes No	Ex i/IS 2x 4-20mA HART
What current tank gauging technology	Are there any known extrusions or	Mark/Space
is used on this tank?	obstacles below the location of the	☐ WM550 ☐ V1 ☐ TRL/2
☐ Radar ☐ Servo ☐ Mechanical	mounting flange/nozzle? Yes No	☐ Enraf GPU Bi-Phase Mark
☐ HTG ☐ Hybrid ☐ Magnetostrictive	If yes, please provide details:	L&J Tankway
☐ None ☐ Other:	Are there any inlets that will pour	Other:
Temperature units 🗌 °C 🗌 °F	product into the tank in the vicinity of	
Temperature min.:	the mounting location? \square Yes \square No	Power Source
Temperature max.: Vapor pressure units PSIG BAR	If yes, please provide details:	What type and range of power source is available at the tank? ☐ AC ☐ DC
Vapor pressure min.:	Are there other provisions for	Power range (Volts):
Vapor pressure max.:	manually hand dipping the tank?	Location: Tank top Tank side
Is there evidence of liquid turbulence	☐ Yes ☐ No	Tank Side Operation and Display
or foaming on the product surface?	Stilling Well	What functionality is required at the
☐ None ☐ Turbulence ☐ Foam	Will the instrument be mounted on an existing stilling well? ☐ Yes ☐ No	tank side?
What area classification is required?	Stilling well nominal diameter:	☐ Display ☐ Configuration ☐ Control
☐ FM ☐ ATEX ☐ IEC Ex	Pipe size and schedule/wall thickness	☐ Inputs ☐ Outputs ☐ Relays ☐ Non
☐ CSA	used:	☐ Radar Remote Display ☐ Other:
Other	Constant Diameter? Tyes No	other
☐ Non-hazardous area	If no give details:	
	Slots/Hole width:	

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Additional Approvals & Options SIL		
☐ CRN		
☐ Marine Certificate		
Type		
Overvoltage protection		
Gas-tight feed through		
☐ Air purge		
☐ Antenna extension		
☐ Weather protection cover		
☐ 3-Point Calibration Certificate		
5-Point Calibration Certificate		
☐ 10-Point Calibration Certificate, Standard Version		
☐ 10-Point Calibration Certificate, Maximum Performance		
☐ NMi factory Custody Transfer Certificate		
☐ NMi factory Custody Transfer Certificate, Max Performance		
☐ PTB Factory Custody Transfer Certificate		
☐ PTB Factory Custody Transfer, Maximum Performance		
☐ Test/Material Certificate		
Type(s)		
☐ DeviceCare USB flash drive ☐ Other		
Temperature Measurement Do you require temperature measurement?		
☐ None ☐ Spot ☐ Average		
If Average, please complete the temperature application data sheet.		
Other Measurements Do you require other measurements?		
☐ None		
☐ Density (Hybrid)		

