

Radar Tank Gauging

Application Data Sheet



In order to specify the correct instrument for your application please complete all fields for each tank.

Completed By: _____

Company: _____

Tel: _____

E-mail: _____

Date: _____

Notes: _____

Application

What product is stored in the tank?

Dielectric Constant: _____

What accuracy is required?

- ±1 mm ±2 mm ±6 mm

What current tank gauging technology is used on this tank?

- Radar Servo Mechanical
 HTG Hybrid Magnetostrictive
 None Other: _____

Temperature units °C °F

Temperature min.: _____

Temperature max.: _____

Vapor pressure units PSIG BAR

Vapor pressure min.: _____

Vapor pressure max.: _____

Is there evidence of liquid turbulence or foaming on the product surface?

- None Turbulence Foam

What Approval is required?

- FM CSA ATEX IEC Ex
 KC INMETRO NEPSI

What Classification is required?

Tank

What type of tank will the instrument be installed on?

- Cone roof Sphere
 Internal or External floating roof
 Horizontal or Vertical cylinder

Tank ID#: _____

Nozzle height (N): _____

Maximum fill level (F): _____

Tank shell height (T): _____

Tank diameter: _____

Mounting

What is the type and size of the nozzle connection?

Flange size: _____

Flange class: _____

- ASME 1½" NPT DIN

- Tri-clamp Other: _____

Distance from:

- flange to tank entry (H): _____

- tank wall (W): _____

Is the flange perpendicular to the product surface? Yes No

Are there any known extrusions or obstacles below the location of the mounting flange/nozzle? Yes No

If yes, please provide details:

Are there any inlets that will pour product into the tank in the vicinity of the mounting location? Yes No

If yes, please provide details:

Are there other provisions for manually hand dipping the tank?

- Yes No

Stilling Well

Will the instrument be mounted on an existing stilling well? Yes No

Stilling well nominal diameter: _____

Pipe size and schedule/wall thickness used: _____

Constant Diameter? Yes No

If no give details: _____

Slots/Hole width: _____

Communications Output

What output protocol is required?

- Profibus Foundation Fieldbus
 4-20 mA/HART Mark/Space*
 RS-485 MODBUS* Bi-Phase Mark*
 GPE* L&J* V1* WM550*
 Other: _____
 (*4590 TSM)

Power Source

What type and range of power source is available at the tank? AC DC

Power range (Volts): _____

Location: Tank top Tank side

Tank Side Operation and Display

What functionality is required at the tank side?

- Display Configuration Control
 Inputs Outputs Relays None
 Radar Remote Display
 Other: _____

Temperature Measurement

Do you require temperature measurement?

- None Spot Average

If Average, please complete the temperature application data sheet.



