

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 ±3 mm 10 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 area classification is required?

FM (XP) FM (I.S.)
 ATEX (EEx ia) ATEX (EEx d[ia])
 CSA (I.S.) CSA (GP)
 CSA (XP) None

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: _____

ANSI 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 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
 Other: _____

Temperature Measurement

Do you require temperature measurement?

None Spot Average

If Average, please complete the temperature application data sheet.

