

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 ±3-10 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):-----

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.

