

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?

±0.5 mm ±1 mm ±2 mm

±6 mm

Custody Transfer Yes No

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 ATEX IEC Ex

CSA

Other _____

Non-hazardous area

Tank

What type of tank will the instrument be installed on?

Cone/Fixed 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 Threaded NPT; Size _____

DIN

Tri-clamp Other: _____

Distance from:

- flange to tank entry (H): _____

- tank wall (W): _____

Is the flange parallel 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 primary output protocol is required?

Profibus Foundation Fieldbus

4-20 mA HART Ex d/XP

4-20 mA HART Ex i/IS

Mark/Space

RS-485 MODBUS GPU Bi-Phase Mark

GPE L&J V1 WM550

Other: _____

What secondary output protocol is required?

4-20mA HART Ex d/XP

4-20mA HART Ex i/IS

Relay outputs 2 4 6

RS-485 MODBUS

Ex d/XP 1x 4-20mA HART

Ex d/XP 2x 4-20mA HART

Ex i/IS 1x 4-20mA HART

Ex i/IS 2x 4-20mA HART

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: _____

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Additional Approvals & Options

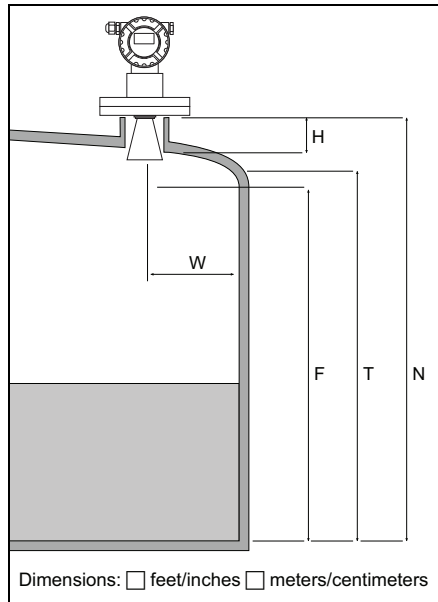
- SIL
- CRN
- Marine Certificate

Type -----

- Overvoltage protection
- Gas-tight feed through
- Air purge
- Antenna extension
- Weather protection cover
- 3-Point Calibration Certificate
- 5-Point Calibration Certificate
- NMI factory Custody Transfer Certificate
- NMI factory Custody Transfer Certificate, Max 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.