

# Servo 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 Details**

What product is stored in the tank?

\_\_\_\_\_

What is its density \_\_\_\_\_

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 (XP/I.S.)

ATEX (EEx d)  ATEX (EEx d[ia])

ATEX (EEx d, Zone 0)

ATEX (EEx d[ia] Zone 0)

CSA (XP)  CSA (XP/I.S.)

IP67/NEMA 4X

Is NMI Approval Required?

Yes  No

**Tank**

What type of tank will the instrument be installed on?

Cone roof

Internal floating roof

External floating roof

Sphere

Horizontal cylinder

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#  DIN  Other

Are there other provisions for manually hand dipping the tank?

Yes  No

Is an isolation valve required?

Yes  No

**Stilling Well**

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

Stilling well diameter: \_\_\_\_\_

**Communications Output**

What primary output protocol is required?

RS-485 MODBUS  Mark/Space

WM550  V1  Enraf BPM

None

What secondary output protocol is required?

SPST  Analog

Overfill protection

**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 Indication**

Is tank side indication required?

Yes  No

**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?

Density (Spot)

Density (Profile)

Tank bottom

Interface level

Contact input operation

**Example Installation**

