



# Radar Transmitter

## Level Application Questionnaire

(Please complete both pages)

<b>REFERENCE INFORMATION</b> Customer/Company: _____ SIC: _____ City, State: _____ Country: _____ Date: _____ Contact/Title: _____ Phone: _____ Email: _____ RFQ Number: _____ P. O. Number: _____ Tag Number(s): _____ Submitted by: Rep Agency and Salesperson _____ Rep Code: _____	Application same as previous M#: _____ _____ signature FOR OFFICE USE: _____ _____
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<b>MODEL NUMBER</b> Antenna Transmitter <b>R 8 6</b> — <b>5</b> — _____ — _____ <b>R B</b> — _____ — <b>0</b> — <b>0</b> — _____ — <b>0 0 0</b> Quantity	
Antenna Transmitter <b>R 9 6</b> — <b>5</b> — _____ — _____ <b>R A</b> — _____ — _____ — <b>0 0</b> Quantity	<b>R 8 2</b> — <b>5</b> — _____ — <b>A</b> — <b>0</b> — _____ Quantity Housing: <input type="checkbox"/> Aluminum <input type="checkbox"/> Lexan Antenna: <input type="checkbox"/> Tefzel <input type="checkbox"/> Polypropylene

**PROCESS DATA**  
 Process Name/Description: \_\_\_\_\_  
 Process Media: \_\_\_\_\_  
 Media Constants: Dielectric Constant: \_\_\_\_\_ Conductivity: \_\_\_\_\_ (μ siemen/cm) Varies?  No  Yes, from \_\_\_\_\_ to \_\_\_\_\_  
 Liquid: % Concentration \_\_\_\_\_  Slurry: % Solids \_\_\_\_\_  
 Process Temperature:  AMB \_\_\_\_\_ min. \_\_\_\_\_ max.  °F  °C  Other  
 Process Pressure:  ATMOS \_\_\_\_\_ min. \_\_\_\_\_ max.  PSIG  Bar  KPA  Other  
 Temperature at Instrument:  AMB \_\_\_\_\_ min. \_\_\_\_\_ max.  °F  °C  Other  
 Will media coat antenna?  No  Condensation  Film Coating  Significant Coating  
 Environment:  Normal  Corrosive  Salt  Flood  
 Agency:  FM  CSA Area Classification:  General Purpose (Nema 4X)  Hazardous: Cl \_\_\_\_\_ Div \_\_\_\_\_ Group \_\_\_\_\_  
 ATEX  IEC Hazardous Area Design:  Explosion-proof  Intrinsically Safe  Nonincendive  Other  
 Required Materials of Construction: \_\_\_\_\_  
 Tank Type:  Vertical Cylindrical  Horizontal Cylindrical  Sphere  Sump/Pit (covered)  Other \_\_\_\_\_  
 Tank Size: Height \_\_\_\_\_ Width \_\_\_\_\_ Diameter \_\_\_\_\_ Unit of Measure \_\_\_\_\_  
 Tank Material of Construction:  Metal  Plastic  Concrete Lined:  Yes  No Coated:  Yes  No Other \_\_\_\_\_  
 Tank Top:  Flat  Horizontal Cylinder  Dome  Irregular  Non-metallic  
 Tank Bottom:  Flat  Dish  Cone  Other \_\_\_\_\_  
 Process Connection: Threaded \_\_\_\_\_  NPT  BSP Flange (size/type) \_\_\_\_\_  
 Distance to Sidewall \_\_\_\_\_  
 Nozzle: Height \_\_\_\_\_ (Include any amount that extends into vessel) Diameter \_\_\_\_\_ Material \_\_\_\_\_  
 Stillwell (metal only):  Yes  No Inside Diameter \_\_\_\_\_  
 Type of Filling:  Top  Bottom  Side (At what level? \_\_\_\_\_)  
 Agitation:  Yes  No  During Filling  During Emptying  Between Fill and Empty  
 Turbulence:  None  Light  Medium  Heavy  
 Mixer: Number of Blades \_\_\_\_\_ Blade Size \_\_\_\_\_ Number of Stages \_\_\_\_\_ Height of Each Stage \_\_\_\_\_ RPM \_\_\_\_\_  
 Rate of Change (Inches (mm)/minute):  <5(13)  5-20(13-50)  20-60(50-150)  >60(150)  
 Foam:  None  Light  Medium  Heavy Maximum thickness of foam layer \_\_\_\_\_  
 Does liquid boil and/or flash:  Yes  No  
 Other Objects in Vessel:  Yes  No \_\_\_\_\_ (Include sketch on page 2)

**PERFORMANCE**

Measurement requirement (with respect to the bottom of the vessel):

What is the maximum level height of the material?: \_\_\_\_\_ Unit of Measure: \_\_\_\_\_

What is the minimum level height of the material?: \_\_\_\_\_ Unit of Measure: \_\_\_\_\_

The typical operating level is \_\_\_\_\_ Unit of Measure: \_\_\_\_\_

Accuracy Required: During filling: \_\_\_\_\_% During emptying: \_\_\_\_\_%

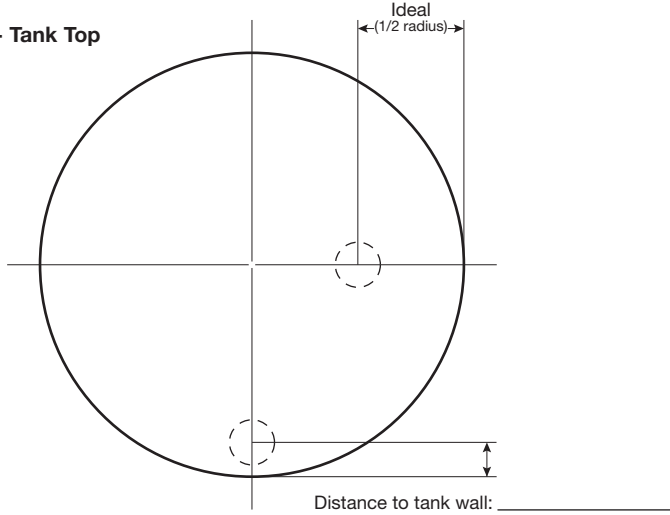
When level is stationary: \_\_\_\_\_%

When level is stationary and agitated: \_\_\_\_\_%

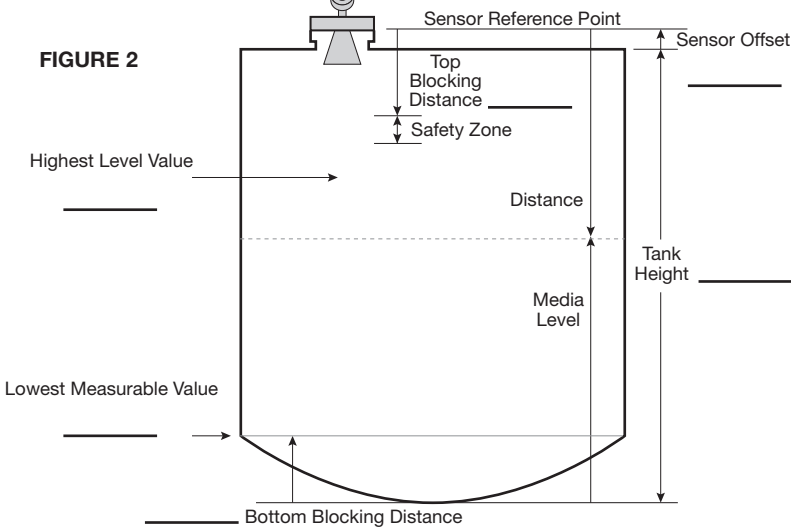
**High Level Shutdown/Overfill Protection**

Special consideration is necessary in any application for High Level Shutdown/Overfill protection. To ensure proper measurement, Consult Factory.

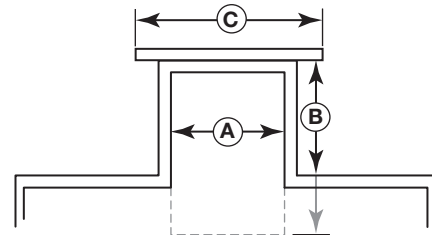
**FIGURE 1 - Tank Top**



**FIGURE 2**



**FIGURE 3 - NOZZLES**



**A** = Diameter \_\_\_\_\_

**B** = Length \_\_\_\_\_

**C** = Mounting \_\_\_\_\_

**NOTES**

1. End of R82 antenna should never be recessed more than 2x the nozzle diameter
2. Nozzle should not exceed Schedule 40

Show location and relative size of all false targets (Figures 1 & 2) – Mixing blades: sketch top and side view

