

Radar Configuration Worksheet:

Date: _____ Proposal #: _____
 Customer: _____ Location (Site) _____
 Tag Number(s) _____
 SO#: _____ PO#: _____

HARDWARE

- 1) Radar Gauge ☐ MCG 1600SFI ☐ evo 2600
- 2) Material ☐ Aluminum (Std.) ☐ 316 Stainless Steel
- 3) Mounting Connection
 - A) Rating ☐ 150# RF (SS) ☐ 300#RF (SS)
 - B) Size ☐ 2 inch ☐ 3 inch ☐ 4 inch ☐ 6 inch ☐ 8 inch
- 4) Operating Pressure (Max) ☐ Atmos. (Std.) ☐ OTHER _____
- 5) Ambient Temperature ☐ -40° to 150°F (Std.) ☐ Special Min _____ Max _____
- 6) Product _____ SG/Density _____ Dielectric Constant _____

ELECTRICAL CONNECTIONS

- 1) Power Input ☐ 110VAC (Std.) ☐ 48VAC ☐ 220VAC ☐ 48VDC ☐ 24VDC ☐ 24VAC
- 2) Temperature Input ☐ None (Std.) ☐ 3 Wire Spot RTD ☐ Average
- 3) Other Inputs ☐ None (Std.)

☐ Analog Input (for Pressure) Range = _____
☐ Analog Input (for Density) Range = _____
☐ Analog Input (for BS&W) Range = _____
- 4) Relay Outputs ☐ None

☐ Relay 1, used for _____ (i.e. HIHI), Relay 2, used for _____ (2 relays)
☐ Relay 3, used for _____ Relay 4, used for _____ (4 relays)
☐ Relay 5, used for _____ Relay 6, used for _____ (6 relays)
- 5) Remote Display ☐ 4x20 char LCD ☐ Ground ☐ Level ☐ Display w/IR Support ☐ No GLD
- 6) Communications Output

☐ None (Std.) ☐ L&J Tankway ☐ GPE 31422/23 ☐ Varec Mark/Space
☐ Modbus via L&J Tankway ☐ Modbus via 2-wire RS485 ☐ Modbus via 4-wire RS485
☐ Enraf ☐ Ti-Way ☐ Hart ☐ Saab TRL/2 ☐ Fieldbus
☐ Profibus ☐ RGL/NMC ☐ OTHER _____
- 7) Analog Outputs ☐ None (Std.) ☐ 4-20mA for Level ☐ 4-20mA for Temp ☐ 4-20mA for Density

REQUIRED DETAILS

- 1) Antenna Type ☐ Cone ☐ Parabolic ☐ Stilling Well ☐ Float & Tape Gauge Replacement
- 2) An MCG 2150 Handheld Infrared Calibrator *is required*.
- 3) Type of Tank ☐ Vertical ☐ Sphere ☐ Horizontal Bullet
- 4) Stilling Well ☐ None ☐ Yes, Size _____ ☐ Requires Ball Valve (Need customer supplied mounting drawing)
- 5) LCD Display Info ☐ Standard, Level & Optional Temperature
☐ Level & Volume from Multiplier (Std.)
☐ Other, Volume From _____
☐ Custom _____
 (For example, Volume with customer supplied equation)

TANK AND MOUNTING DIMENSIONS

Tank Style (Fill in dimensions in chart below from the customer data sheet)

- ☐ Vertical Tank: FIXED ROOF / CONE Antenna, Drawing #841743 (sheet **3I**)
- ☐ Vertical Tank: FIXED ROOF / PARABOLIC Antenna, Drawing #841744 (sheet **3J**)
- ☐ Vertical Tank: FIXED ROOF / STILLING WELL Antenna, Drawing #841745 (sheet **3K**)
- ☐ Vertical Tank: FLOATING ROOF / STILLING WELL Antenna, Drawing #841746 (sheet **3L**)
- ☐ Vertical Tank: GUIDED WIRE, Drawing #841757 (sheet **3S**)
- ☐ Spherical Tank: STILLING WELL Antenna, Drawing #841747 (sheet **3M**)

Designation	Description	Dimension (with units)
A	Datum Level	
B	Maximum Fill Level	
C	Minimum Fill Level	
D	Tank Diameter	
E	Tank Length	
F	Tank Height	
G	Wall Clearance	
H	Riser Offset	
I	Riser Diameter	
J	Pipe Bottom Offset	
K	Flange Size	
L	Tank Material	
M	Pipe Material	
N	Pipe I.D.	

Notes: If none of the standard tank style sheets apply, obtain a customer supplied tank drawing

Some tank parameters listed may not apply.

MCG 1600SFI	
Antenna Size	C
3"	0.225
4"	0.184
6"	0.154
8"	0.134
15" Parabolic	0.088

evo 2600	
Antenna Size	C
2"	0.355
3"	0.164
4"	0.138
6"	0.098
8"	0.077
12" Parabolic	0.045

The recommended minimum wall clearance = C * TANK HEIGHT