

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