Application Data Sheet

COMPLETE ONE FORM PER TANK



Supplement 1000-2R, Effective: October 2012

Company Information			Contact Information			
COMPANY		DATE	NAME			
ADDRESS			TITLE			
СІТУ		STATE	EMAIL			
PLANT NAME / LOCATION			PHONE	FAX		
Tank Information						
TANK NAME			MANUFACTURER		YEAR MANUFACTURED	
CAPACITY	DENSITY / SP. GRAVITY		SERIAL NO.			
FLUID	DIELECTRIC CONSTANT		READOUT UNITS #1	READOUT UNITS #1		
			READOUT UNITS #2		/olume (Gallons, Liters, etc) Veight (Pounds, Kilograms, etc)	
	PROCESS / STORAGE TEM	Р.	READOUT UNITS #3	С	Depth (Feet, Meters, etc)	
Tank Shapes—LevelWAV (Gu	ided Radar) Syste	ems:		SHADED AREA IN ILLUSTRATIONS REPRES	ENTS THE EFFECTIVE	
ration.	תונינות			MEASUREMENT ZONE WITHIN TANK		
G C	щØ		ЩØ	* REFERENCE LENGTH (L) IS FROM NPT CO SECTION OF MOUNTING CENTERLINE AN		
<u>→</u> <u> </u>	_ _	1	_	A		
	+	5 -	-	00 to 00		
В —	B	→	→ B →		F -	
				+ + + + + + + + + + + + + + + + + + + +		
	A	L	A			
				L	B	
	E	- 	F		G	
		_	1	→ F ====		
Vertical / Silo	Cone Botto	m	Dish Bottom	Horizontal C	ylinder	
TANK SHAPE			REFERENCE LENGTH (FROM TO	OP CONNECTION TO END POINT REFERENCE		
	Dish Bottom Ho	orizontal Cylinder		L =	in. cm	
STRAIGHT SIDE A =] in.	DEPTH OF CONE (CONE BOTTO	DM) E =	☐ in. ☐ cm	
INSIDE DIAMETER]:. [DEPTH OF DISH (DISH BOTTON			
B =	L] in.		F =	in. cm	
SLOPED BOTTOM C =	Г]in.	PITCH OF TANK (HORIZONTAL	CYLINDER) $G =$	☐ in. ☐ cm	
SPECIAL CONDITIONS						
Multip	ole Compartments	Internal Heating C	oii 🔝 Internal Agitator/M	Nixer Sediment Accumulation		



Please complete tank connection data on next page

8019 Ohio River Blvd. Newell, WV 26050 U.S.A. 304-387-1200 • 800-242-8871 • Fax: 304-387-4417

Tank Application Data

Transmitter Mounting (Process Connection)

Typical process connnection will be 1" or 1-1/2"NPT coupling on the tank. However, it is also common for a tank nozzle to be present on the tank top. Due to the nature of the propagated waveform the tank nozzle may not be longer than its diameter - nor should it extend any distance into the tank interior.

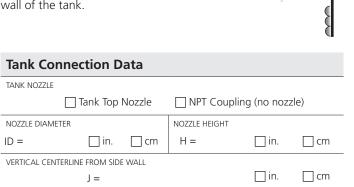
Make certain that the nozzle has a diameter (ID) equal to or greater than its height.

IMPORTANT! ID ≥ H

Provide the dimension of the vertical center line of the mounting to the side wall of the tank.

MINIMUM CLEARANCE FROM INTERNAL OBSTRUCTION

K =



NOTE: "K" dimension must be at least 12"/300mm from the closest obstruction for proper operation of the LevelWAV radar unit.

Sensor Configuration - Application Limits

Probe Type	Max. Length		Min. Dielectric
4mm cable	945 in	2400 cm	2.1
8mm cable	945 in	2400 cm	2.1
Twin cable	945 in	2400 cm	1.8
Rod	236 in	600 cm	2.1
Twin Rod	118 in	300 cm	1.8

Material	Dielectric Constant
baking soda	5.7
calcium carbonate	9.1
fly ash	1.9-2.6
lime (quicklime)	4.8
potash	5.6

☐ in.

cm

Tank Cleaning Method

Some process environments require periodic internal cleaning of the tank. If applicable, please indicate cleaning method employed.

Clean-in-place (CIP)	☐ High Temperature Sterilization / SIP
☐ Passivation	☐ Manual Cleaning

Special Conditions

Some of the following tank features may limit the selection of sensor or must be compensated for in programming tank capacity. If applicable, please indicate whether any of the following conditions exist.

ease mulcate whether any or the	following conditions exist.
☐ Internal Heating Coil	Sediment Accumulation
☐ Internal Agitator/Mixer	
☐ Multiple Compartments	
Surface Turbulence	☐ Bubbling/boiling
Product Buildup (coating)	
Other (describe):	

Fluid	Reference Temperature	Dieletric Constant
acetic acid	68° F	6.2
acetone	77° F	20.7
alcohol	68° F	21.8-33.1
ammonia	68° F	16.5
carbon tetrachloride	68° F	2.2
castor oil	60° F	4.7
chlorine	32° F	2.0
diesel fuel	70° F	1.8
gasoline	70° F	2.0
heptane	68° F	1.9
kerosene	70° F	1.8
olive oil	68° F	3.1
palmitic acid	160° F	2.3
propane	32° F	1.6
stearic acid	160° F	2.3
styrene	77° F	2.4
water	68° F	80.4