MODEL P62 SANITARY PROBE

TS P62

EQUIPPED WITH CONCENTRIC GROUND REFERENCE

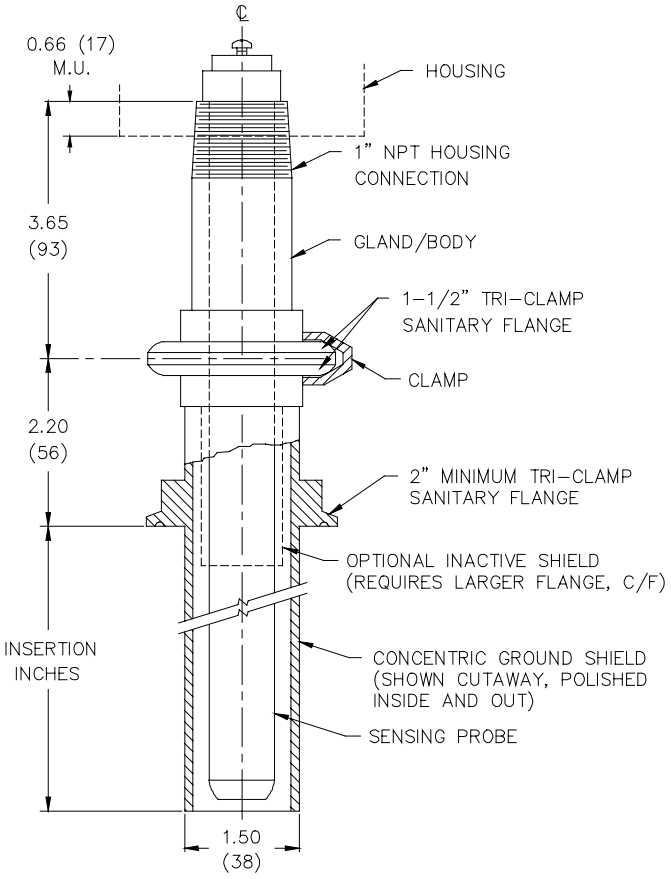
ADVANTAGES

- Only FDA approved Kynar® material comes into contact with the process fluid
- Concentric ground reference tube provides a linear output in horizontal cylindrical tanks
- Used where agitation causes problems
- Easily cleaned manually, in-place, or by steaming
- Basic process connection mates with Ladish Tri-Clamp® sanitary flange
- 3-A authorized and listed sanitary sensor
- Suitable for the pharmaceutical industries
- Works with conductive liquids
- Suitable for very low dielectric liquids such as wax, grease, and pure oils
- Can be used to measure interface position

APPLICATION

The Model P62 is essentially a Model P61 which has been equipped with a concentric ground reference tube. The "P61" inner portion is connected to the reference tube using a tri-clamp sanitary flange. The inner unit is easily removed from the outer ground reference tube for cleaning or inspection. The concentric shield is mounted to the process vessel by a second tri-clamp sanitary flange. It can be left in place while the inner portion is withdrawn. The reference portion can then be removed as required. The Kynar® sensing rod/seal jacket is a single piece welded part, without joints, cracks, or crevices. The finished unit is flame polished for the utmost in smoothness and cleanability. The ground reference tube is made of 316 stainless steel and is polished both internally and externally. The integral ground reference allows the Model P62 to be used in plastic tanks and in lined tanks which do not provide the necessary ground reference.

OUTLINE DIMENSIONS



SPECIFICATIONS

Working pressure: Up to 500 PSIG (35 BAR)
Working temperature: -40 to 300ºF (-40 to 150ºC)
Insertion length: Up to 4 feet (2.5 meters)
Process connection: 2 inch or larger tri-clamp flange, other styles and types optional
Wetted material: Kynar® (PVDF) and 316 S.S.
Body material: 316 stainless steel
Electrical modules: Compatible with all models
Process temperature sensing: Optional; to 250ºF (122ºC); 4-20 mA over a second 2 wire loop

MODEL NUMBERING SYSTEM

BASIC TYPE	-	INSERTION LENGTH	-	PROCESS CONN	-	OPTIONS
MODEL EXAMPLE 62K	-	19	-	2" TC	-	AA

M/N	INSULATION MATERIALS
P62K	KYNAR® PVDF

GLAND, TUBE, & FLANGE: 316 S.S.

INCHES BELOW THE FACE OF THE GROUND REFERENCE TUBE MOUNTING FLANGE

NOTE: 48 INCHES (2.5M) MAX.

M/N	DESCRIPTION
2"TC 2 ½" TC 3" TC	LADISH TRI-CLAMP®
ZZ	OTHER TYPES AND SIZES

DESIGNED AND BUILT IN THE USA BY DELTA CONTROLS

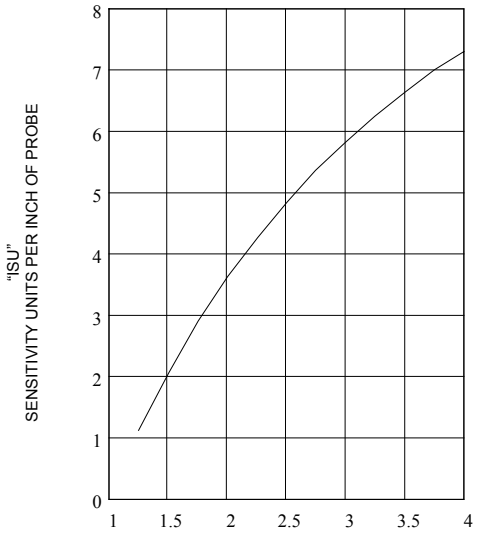
M/N	DESCRIPTION
AA	NONE
RH	4X HEAD HOUSING FOR USE WITH REMOTED UNIT
PT	PROCESS TEMPERATURE TRANSMITTER
SL	GROUND TUBE SLOTTED FOR INTERFACE SERVICE

ESTIMATING PROBE PERFORMANCE

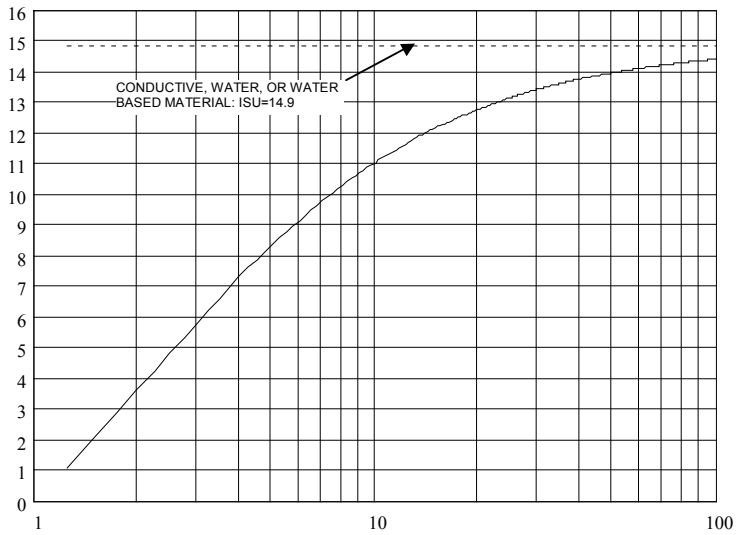
STEP #1 Determine "BSU", which is the total Sensing Unit equivalent when no materials is covering the sensing probe.

(A) BASIC "SU" DUE TO SEAL / BODY = 222
(B) INCHES SENSING PROBE INSERTION X 7.0 =_____
(C) INCHES OF TEMPERATURE EXTENSION AND INACTIVE SHIELD X 22.0 =_____
(D) INCHES CABLE FOR REMOTED MODULE X 4.5 =_____
"BSU" = TOTAL =_____

STEP #2 Determine "ISU", which is the quantity of Sensing Unit change caused by a 1 inch change in the elevation of the process material covering the sensing probe. "ISU" = Read from the graph below



Dielectric Constant of Process Material



Dielectric Constant of Process Material

STEP # 3 Insert "BSU" and "ISU" (determined above) into the formulas shown in Application Note # PROB-198; "FORMULAS FOR MODELING AND PERFORMANCE TESTING". Verify that the selected probe and electronics module will meet the needs of the application and provide the expected results.

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APPROVED QUALITY SYSTEM ISO 9001