

Guided Wave Radar Liquid Level Transmitter

FEATURES

- Graphic Display with Waveform Screen
- Widest Selection of Wetted Materials
- Radar Signal Travels Along the Waveguide – Eliminates False Echoes and Minimizes Signal Loss
- No Moving Parts
- Linearization Table
- Lengths from 1 to 200 ft. / 0.3 to 61 meters
- Rigid, Flexible Cable & Coaxial Probes
- All Digital Electronics



OPTIONS

- HART Protocol
- Glass Viewing Window
- 316L Stainless Steel Enclosure
- MODBUS
- Foundation Fieldbus

ACCESSORIES

- K-COM™ Communications Software
- External Chambers
- Stilling Wells
- Loop Indicators

SPECIFICATIONS

| | | |
|------------------------------|---|--|
| Housing | Dual Compartment Powder Coated Aluminum or Stainless Steel | |
| Electrical Connection | 1/2" FNPT or M20 | |
| Power | 13.5 – 36 VDC, Standard; 9-32 VDC Foundation Fieldbus; 10 - 18 VDC MODBUS | |
| Wiring | Standard and Foundation Fieldbus - 2 wire MODBUS - 4 wire plus shield (2 power, 2 data - half duplex) | |
| Output | Single 4-20 mA, HART, Foundation Fieldbus (ITK 5.0.1), MODBUS (RTU or ASCII) | |
| Graphic Display | Field Selectable Units in Feet, Inches, Millimeters, Centimeters, Meters or Percentage and Waveform Screens | |
| Accuracy | +/- 0.1 in / 3mm for coaxial probes*, +/- 0.2 in / 5 mm for all other configurations | |
| Resolution | +/- 0.063 in / 1.6 mm | Process Pressure Up to 5000 psi (344 bar) |
| Repeatability | 0.1 in. / 3 mm * | Process Temperature Up to 800°F (427°C) |
| Range | 1 to 200 ft. / 0.3 to 61 meters | Dielectric Constant Minimum 1.4 |
| Process Connection | 3/4" NPT Standard | Process Max Viscosity 1500 cp |
| Sensor Material | 316L SS Standard, Other Materials Optional | |

Approvals



Factory Mutual Research Corporation
 XP-IS / I / 1 / ABCD / T6 Ta = 77°C
 DIP / II, III / 1 / EFG / T6 Ta = 77°C
 IS / I / 1 / ABCD / T4 Ta = 77°C - ELE1034
 NI / I / 2 / ABCD / T4 Ta = 77°C
 S / II, III / 2 / FG / T4 Ta = 77°C
 ANI / I / 2 / ABCD / T4 - ELE1034
 Type 4X



Canadian Standards Association
 XP CL 1, DIV 1, GP ABCD; CL 2, DIV 1, GP EFG; CL 3 - T6
 CL 1, DIV 2, GP ABCD; CL 2, DIV 2, GP EFG - T5
 IS CL 1, DIV 1, GP CD; CL 2, DIV 1, GP EFG - T4
 - when installed per ELE1034
 Type 4X



GOST Russian
 1Exd[ia]IIC T6, 0ExialIB T6, IP67



UKRSEPRO
 1ExdialICT6; 0ExialIB T4



IEC International Electromechanical Commission
IECEx ITS 08.0036X
 II 1/2 G/D
 Ex ia IIB T4 (-40°C ≤ Tamb ≤ 66°C)
 Ex iaD 20/21 IP6X T80°C (-40°C ≤ 66°C)
IECEx ITS 08.0037X
 Ex ia d IIC T4
 Ex iaD tD 20/A21 IP6X T80°C



ATEX
ITS 08ATEX25865X
 II 1/2 G/D
 Ex ia IIB T4 (-40°C ≤ Tamb ≤ 66°C)
 Ex iaD 20/21 IP6X T80°C (-40°C Tamb ≤ 66°C)
ITS08 ATEX15870X
 II 1/2 G/D Ex ia d IIC T6
 Ex tD 20/A21 IP6X T80°C



ORDERING INFORMATION

MT5000 a/b/c/d/e/f/g/h/i/j/k

/a Probe Material

| | |
|-------------|--|
| S6 | 316L Stainless Steel Standard |
| S4 | 304L (Rigid Probe Only) |
| HC | Hastelloy C-276 (Rigid Probes Only, P43 probe HSC-270) |
| HB | Hastelloy B3 (Rigid Probes Only) |
| MO | Monel |
| TI | Titanium (Rigid Probes Only) |
| IN25 | Inconel 625 |

/b Transmitter Configuration

| | |
|-----------|--|
| L | Local Transmitter Standard |
| LW | Local Transmitter with Window Cover Standard |
| R | Remote Mounted Electronics with 5 ft. Cable (Dielectric > 35) |
| RW | Remote Mounted Electronics with Window Cover and 5 ft. Cable (Dielectric > 35) |

/c Transmitter Housing

| | |
|----------|---|
| A | Dual Compartment Aluminum Housing Standard |
| S | Dual Compartment 316L Stainless Steel Housing |

/d Process Connection / Waveguide Coupler

| | |
|---------------|---|
| Cxxonn | xx Process Connection & Waveguide Coupler (Table 1) |
| | o Seal Code (no code required for C8 or C9) (Table 2) |
| | nn Tri-clamp Size C6 & C7 Sanitary Couplers, NPT for C10 Coupler |

/e Probe Type

| | |
|--------------|---|
| X | None |
| Pxxoo | xx Probe Code (Table 3) |
| | oo Sanitary Probe Finish (P41, P42 and P43 Sanitary Probes Only) |
| | 1F - 180 Grit |
| | 2F - 240 Grit |
| | EP - 240 Grit and Electro-polish |

/f Probe Attachment

| | |
|-----------------|--|
| X | None |
| CDyyz-ww | Clamp On Centering Disk (Solid Rod Probes) Note: Rigid probes installed in stilling wells or external chambers require centering disk |
| CWyyz-ww | Clamp On Centering Weight (Cable Probes) Note: Cable probes require a centering weight or end fitting to stabilize bottom of cable |
| E | Eyelet (Cable Probes) |

/g Process Temperature

| | |
|-----------|---|
| H0 | 32 to 250°F / 0 to 121°C |
| H6 | C1 thru C7 and C10 couplers: Above 250°F / 121°C or below 32°F / 0°C Electronics enclosure is extended 6" above process connection C8 and C9 couplers: Above 500°F / 260°C Extends electronics enclosure an additional 6" above process connection (Refer to Table 1 for maximum and minimum process temperatures) |

/h Electronic Module

| | |
|------------|---|
| X | None |
| M7A | One Level, Graphic Display , 4-20 mA Output, HART Add suffix "M" for MODBUS (not Intrinsically Safe) Add suffix "F" for Foundation Fieldbus |



/i Select the Approval

- X** None
- FM** Factory Mutual Research Corporation and Canadian Standards Association
- GR** GOST - Russian
(M7AM option not Intrinsically Safe)
- CEX** ATEX Flameproof
- CEI** ATEX I.S.
- IEI** International Electromechanical Commission I.S.
- IEX** International Electromechanical Commission Flameproof
- UKR** Ukraine SEPRO



/j Process Connection

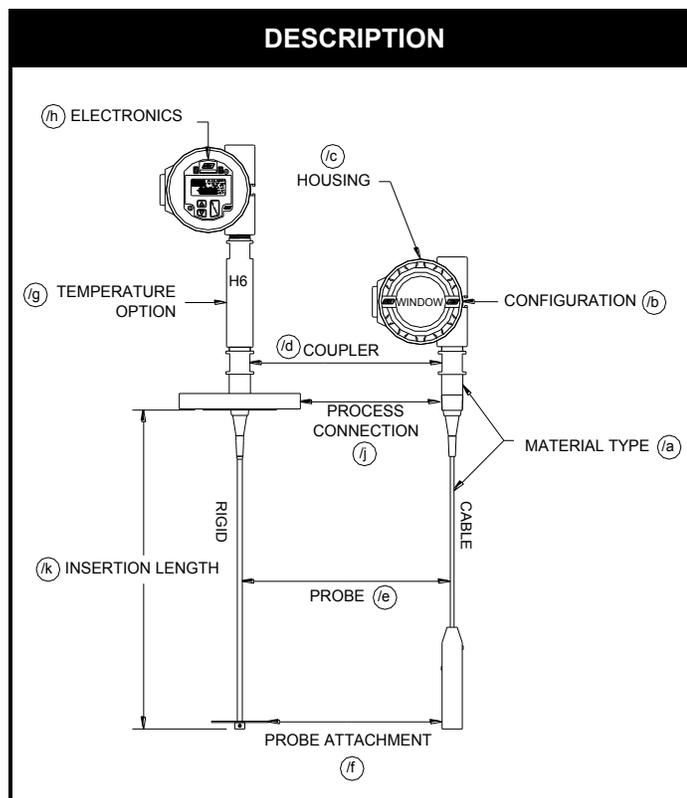
- P** Standard as shown on Probe Process Connection Table (**Table 1**)
- FL** Loose flange or plug for use with probe NPT threads; Specify type, material and rating from Flange Designation Chart (SLG-0001-1)
- WP** Welded process connection Specify type, material and rating from Flange Designation Chart (SLG-0001-1)
The Flange Designation Guide is available under Data Sheets on the MT5000 Product Page on K-TEK's Website (www.ktekcorp.com)
Welded Flanges 400# and above may require the use of an H6 extension.

/k Length

- L** Insertion length from face of coupler in inches or millimeters.
-12in / 305mm minimum
- maximum based on probe type

Available Accessories:

- M20 ISO Fitting: M20 Female Electrical Connection (Brass or Stainless Steel)
- MM Brass
- MMS Stainless Steel



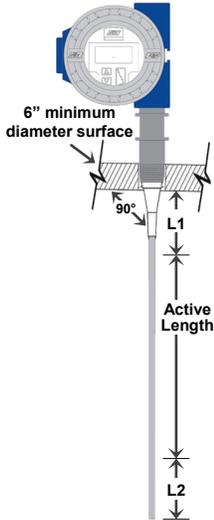
| Table 1 - PROCESS CONNECTION / WAVEGUIDE COUPLER | | | | | | | |
|--|---|--------------------------|----------------------|---|-----------------------|-----------------------|---|
| Base Code ⁴ | Insulator | Process Connection | Seal Options Table 2 | Maximum Pressure | Min Temp ⁶ | Max Temp ⁶ | Compatible Probes |
| SINGLE PROBE / COAXIAL PROBE | | | | | | | |
| C10 ^{1,2} | Teflon | 3/4" NPT ⁸ | V, K E, A | 1500 psi @ 100°F / 103 bar @ 38°C 600 psi @ 400°F / 41 bar @ 204°C | -60°F -50°C | 400°F 204°C | P01, P03, P11, P51, P91 ⁸ |
| C20 ^{1,2} | | 1.5" NPT | | | | | P02, P12, P43 |
| C8 (316SS only) | Borosilicate Glass | 1.5" NPT | Hermetic | 5000 psi @ 100°F / 344 bar @ 38°C 1500 psi @ 800°F / 103 bar @ 427°C Not for Hot Water or Steam Service | -60°F -50°C | 800°F 427°C | P11 ⁹ , P71 (316SS only) |
| C9 (316SS only) | Alumina Ceramic | 1" NPT | Aegis | 2000 psi @ 635°F / 138 bar @ 335°C | -60°F -50°C | 635°F 335°C | P11 ⁵ , P81 (316SS only) |
| DUAL PROBE | | | | | | | |
| C40 ^{1,2} | Teflon | 1.5" NPT | V, K E, A | 1500 psi @ 100°F / 103 bar @ 38°C 600 psi @ 400°F / 41 bar @ 204°C | -60°F -50°C | 400°F 204°C | P31 |
| C50 ^{1,2} | | 2" NPT | | | | | P22, P32 |
| TRI-TAPE PROBE | | | | | | | |
| C10on ^{1,2,7} | Teflon | 2" or 3" NPT | V, K E, A | 1500 psi @ 100°F / 103 bar @ 38°C 600 psi @ 400°F / 41 bar @ 204°C | -60°F -50°C | 400°F 204°C | P34 (316SS only) |
| SANITARY PROBE | | | | | | | |
| C6onn ^{2,3} | Teflon | 1.5" or larger Tri-Clamp | V, K E, A | 50 psi / 13.4 bar | -60°F -50°C | 400°F 204°C | P41, P43 |
| C7onn ^{2,3} | | 2.5" or larger Tri-Clamp | | | | | P42, P43 |
| CUSTOM | | | | | | | |
| CXo | Custom (Consult Factory) | | | | | | |
| Notes: | <ol style="list-style-type: none"> Add the suffix "H" to the Base Code (example: /C1HV) to increase the maximum pressure to: 3000 psi @ 100 F / 207 bar @ 38 C 1200 psi @ 400 F / 83 bar @ 204 C Add the suffix "S" to the Base Code to include a hermetic seal (example: /C4SV) Tri-Clamp size "nn" as follows: 1.5" = 15, 2" = 20, 2.5" = 25, 3.0" = 30 (example: /C6V20) o - Enter seal code from table 2 (example /C2V. Not required for /C8) Requires installation in a stilling well or external chamber Consult Table 2 for o-ring temperature specifications. Thread size "n" as follows: 2" NPT = 2, 3" NPT = 3 (example: /C10V3) The P91 probe has a 1" MNPT adjustable compression fitting equipped with Teflon ferrules as the standard process connection. The maximum process pressure utilizing the Teflon ferrules is 50 psi (3.4 bars). Requires installation in a stilling well or external chamber - <u>minimum</u> L1 is 12" | | | | | | |

| Table 2 - O-RING SEALS | | | | | |
|------------------------|-------------|----------------|----------------|---|---|
| Suffix | Description | Min. Temp | Max. Temp | Compatible With | Not Compatible With |
| V | Viton | -15°F -26°C | 400°F 204°C | General Purpose, Ethylene | Ketones (MEK, Acetone), Skydrol Fluids, Amines, Anhydrous Ammonia, Low Molecular Weight Esters and Ethers, Hot Hydrofluoric or Chlorosulfuric Acids, Sour HCs |
| K | Kalrez | -40°F -40°C | 400°F 204°C | Inorganic and Organic Acids to Include HH and Nitric, Aldehydes, Ethylene, Glycols, Organic Oils, Silicone Oils, Vinegar, Sour HCs, Amines, Ethylene Oxide, Propylene Oxide | Black Liquor, Hot Water, Hot Aliphatic Amines, Molten Sodium, Molten Potassium |
| E | EPDM | -60°F -50°C | 250°F 125°C | Acetone, MEK, Skydrol Fluids, Anhydrous Ammonia | Petroleum Oils, Di-Ester Base Lubricants, Propane |
| A | Aegis | -14°F -10°C | 572°F 300°C | Most Chemicals | Brake Fluid |

| Table 3 - PROBE TYPES | | | | |
|-------------------------------------|--|--|----------------------------|--------------------|
| Code | O.D | Notes | Max Length | Attachment Options |
| SINGLE RIGID ROD | | | | |
| P01 | 0.25in (6mm) | | 10ft (3.05m) ¹ | CD |
| P02 | 0.50in (13mm) | | 20ft (6.10m) ² | |
| P03 | 0.375in (9mm) | | 10ft (3.05m) ¹ | |
| SINGLE FLEXIBLE CABLE | | | | |
| P11 | 0.1875in (5mm) | | 100ft (30.5m) ³ | CD, CW, E |
| P12 | 0.25in (6mm) | | | |
| DUAL RIGID ROD | | | | |
| P22 | 0.50in (13mm) | | 30ft (9.14m) | CD |
| DUAL FLEXIBLE CABLE | | | | |
| P31 | 0.1875in (5mm) | | 100ft (30.5m) | CW |
| P32 | 0.25in (6mm) | | | |
| TRI-TAPE | | | | |
| P34 | 2.00in (51mm) | 316SS only | 50ft (15.24m) | CW (included) |
| SANITARY RIGID ROD | | | | |
| P41 | 0.25in (6mm) | Finish Options: 1F - 180 Grit Finish (std) 2F - 240 Grit Finish EP - 240 Grit and Electro polished ⁴ | 10ft (3.05m) | CD (custom) |
| P42 | 0.50in (13mm) | | 20ft (6.10m) | |
| P43 | 0.125in (3mm) | 316 SS and HSC-270 | 50ft (15.24m) | CW (included) |
| COAXIAL (clean liquids only) | | | | |
| P51 | 0.875in (22mm) | | 22ft (6.71m) | |
| P71 | 1.315in (34mm) | 316SS only | | |
| P81 | 0.875in (22mm) | 316SS only | | |
| P91 | 1.00in (25mm) | | | |
| CUSTOM | | | | |
| /PXX | Custom Probe, Consult Factory | | | |
| Notes: | <ol style="list-style-type: none"> 1. 5ft (1.52m) maximum probe length when installed in a stilling well or EC chamber (minimum 2" diameter) 2. 10ft (3.05m) maximum probe length when installed in a stilling well or EC chamber (minimum 3" diameter) 3. Lengths greater than 7ft (2.13m) require cable spacers at 5ft (1.52m) maximum intervals when installed in a 2" or smaller stilling well or EC chamber. Lengths greater than 10ft (3.05m) require cable spacers at 10ft (3.05m) maximum intervals when installed in 2.5" - 3" stilling well or EC chamber. 4. Certificate of RA and Passivation available upon request. Specify RA finish. | | | |

MT5000 Recommended Installation

NOTE: The following guidelines are very conservative. If you have an application that exceeds these limits consult factory for application recommendations.



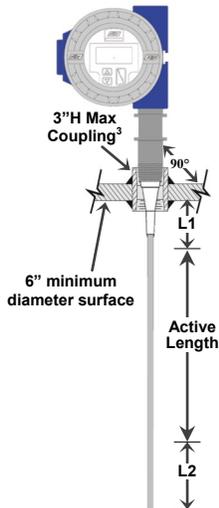
1. SINGLE PROBE - FLAT PLATE

| MINIMUM DIELECTRIC CONSTANT | L MAXIMUM PROBE LENGTH ² | L1 Unmeasurable ¹ | L2 Unmeasurable ¹ (WH = Weight Height) |
|-----------------------------|-------------------------------------|--|---|
| 4 | 20 ft. / 6.1 m | 6 in. / 15.2 cm | 3 in. / 7.6 cm (Rod) WH + 3 in. / 7.6 cm (cable) |
| 10 | 40 ft. / 12.2 m | 3 in. / 7.5 cm | 0 ¹ (Rod) WH + 3" / 7.6 cm (cable) |
| 35 | 100 ft. / 30.5 m | 0 ¹ in. / 0 ¹ cm | 0 ¹ (Rod / Cable) |

NOTES:

- L1 & L2 unmeasurable lengths of 0 may require use of linearization table and latching feature. For easiest startup use $L1_{min} \geq 3"$ or as listed if greater and $L2_{min} \geq 3"$ (rod) or $WH + 3"$ (cable).
- Maximum probe lengths are limited as indicated in Table 2A.

2. SINGLE PROBE - FLAT PLATE WITH COUPLING



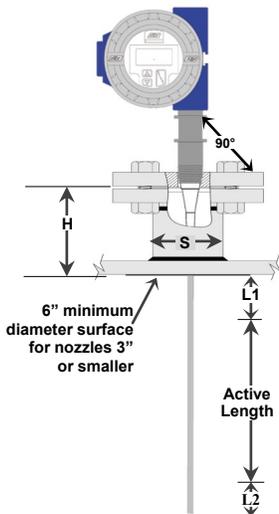
| MINIMUM DIELECTRIC CONSTANT | L MAXIMUM PROBE LENGTH ² | L1 Unmeasurable ¹ | L2 Unmeasurable ¹ (WH = Weight Height) |
|-----------------------------|-------------------------------------|------------------------------|---|
| 4 | 20 ft. / 6.1 m | 8 in. / 20.3 cm | 3 in. / 7.6 cm (Rod) WH + 3 in. / 7.5 cm (Cable) |
| 10 | 40 ft. / 12.2 m | 4 in. / 10.2 cm | 0 ¹ (Rod) WH + 3 in. / 7.5 cm (Cable) |
| 35 | 100 ft. / 30.5 m | 1 in. / 2.5 cm | 0 ¹ (Rod / Cable) |

NOTES:

- L1 & L2 unmeasurable lengths of 0 may require use of linearization table and latching feature. For easiest startup use $L1_{min} \geq 3"$ or as listed if greater and $L2_{min} \geq 3"$ (rod) or $WH + 3"$ (cable).
- Maximum probe lengths are limited as indicated in Table 2A.
- The coupling should not extend into the vessel more than 1 in. / 2.5 cm.

3A. SINGLE PROBE - NOZZLE & FLANGE

[height of nozzle (H) greater than width of nozzle (S)]



| MINIMUM DIELECTRIC CONSTANT | L MAXIMUM PROBE LENGTH ² | L1 Unmeasurable ¹ | L2 Unmeasurable ¹ (WH = Weight Height) |
|-----------------------------|-------------------------------------|--|---|
| 4 | 20 ft. / 6.1 m | 8 in. / 20.3 cm | 3 in. / 7.6 cm (Rod) WH + 3 in. / 7.5 cm (Cable) |
| 10 | 40 ft. / 12.2 m | 4 in. / 10.2 cm | 0 ¹ (Rod) WH + 3 in. / 7.5 cm (Cable) |
| 35 | 100 ft. / 30.5 m | 2 ¹ in. / 5.1 ¹ cm | 0 ¹ (Rod / Cable) |

NOTES:

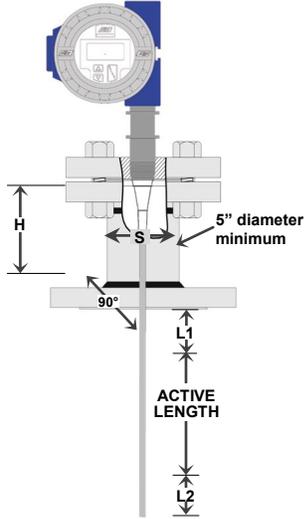
- L1 & L2 unmeasurable lengths of 0 may require use of linearization table and latching feature. For easiest startup use $L1_{min} \geq 3"$ or as listed if greater and $L2_{min} \geq 3"$ (rod) or $WH + 3"$ (cable).
- Maximum probe lengths are limited as indicated in Table 2A.
- A one time startup adjustment is required to eliminate the effect of the nozzle. For details refer to the Blanking Parameter in the Commissioning section of the Installation & Operation Manual.

MT5000 Recommended Installation

NOTE: The following guidelines are very conservative. If you have an application that exceeds these limits consult factory for application recommendations.

3B. SINGLE PROBE - NOZZLE & FLANGE

[height of nozzle (H) less than width of nozzle (S)]

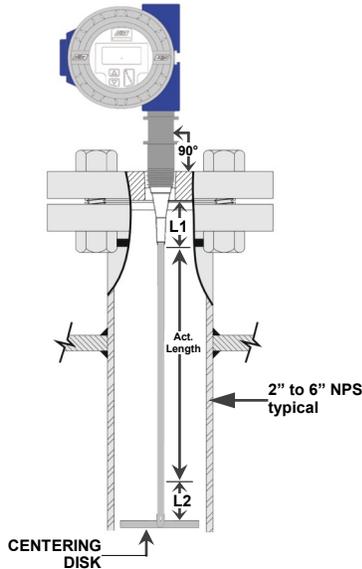


| MINIMUM DIELECTRIC CONSTANT | L MAXIMUM PROBE LENGTH ² | L1 Unmeasurable ¹ | L2 Unmeasurable ¹ (WH = Weight Height) |
|-----------------------------|-------------------------------------|--|---|
| 4 | 20 ft. / 6.1 m | 6 in. / 15.24 cm | 3 in. / 7.6 cm (Rod) WH + 3 in. / 7.6 cm (Cable) |
| 10 | 40 ft. / 12.2 m | 3 in. / 7.5 cm | 0 ¹ (Rod) WH + 3 in. / 7.6 cm (Cable) |
| 35 | 100 ft. / 30.5 m | 2 ¹ in. / 5.1 ¹ cm | 0 ¹ (Rod / Cable) |

NOTES:

- L1 & L2 unmeasurable lengths of 0 may require use of linearization table and latching feature. For easiest startup use $L1_{min} \geq 3"$ or as listed if greater and $L2_{min} \geq 3"$ (rod) or $WH + 3"$ (cable).
- Maximum probe lengths are limited as indicated in Table 2A.
- A one time startup adjustment is required to eliminate the effect of the nozzle. For details refer to the Blanking Parameter in the Commissioning section of the Installation & Operation Manual.

4. SINGLE PROBE - PERMANENT STILLING WELL

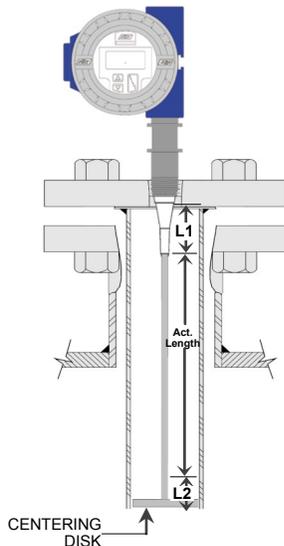


| MINIMUM DIELECTRIC CONSTANT | L MAXIMUM PROBE LENGTH ² | L1 Unmeasurable ¹ | L2 Unmeasurable ¹ (WH = Weight Height) |
|-----------------------------|-------------------------------------|--|---|
| 1.7 ³ | 20 ft. / 6.1 m | 8 in. / 20.3 cm | 3 in. / 7.6 cm (Rod) WH + 3 in. / 7.6 cm (Cable) |
| 3 | 30 ft. / 9.1 m | 6 in. / 15.2 cm | 3 in. / 7.6 cm (Rod) WH + 3 in. / 7.6 cm (Cable) |
| 10 | 50 ft. / 15.2 m | 3 in. / 7.5 cm | 0 ¹ (Rod) WH + 3 in. / 7.6 cm (Cable) |
| 35 | 50 ft. / 15.2 m | 0 ¹ in. / 0 ¹ cm | 0 ¹ (Rod / Cable) |

NOTES:

- L1 & L2 unmeasurable lengths of 0 may require use of linearization table and latching feature. For easiest startup use $L1_{min} \geq 3"$ or as listed if greater and $L2_{min} \geq 3"$ (rod) or $WH + 3"$ (cable).
- Maximum probe lengths are limited as indicated in Table 2A.
- Stilling well size will determine minimum dielectric constant.

5. SINGLE PROBE - REMOVABLE STILLING WELL & TRI-TAPE



| MINIMUM DIELECTRIC CONSTANT | L MAXIMUM PROBE LENGTH ² | L1 Unmeasurable ¹ | L2 Unmeasurable ¹ (WH = Weight Height) |
|-----------------------------|-------------------------------------|--|---|
| 1.7 ³ | 20 ft. / 6.1 m | 8 in. / 20.3 cm | 3 in. / 7.6 cm (Rod) WH + 3 in. / 7.6 cm (Cable) |
| 3 | 30 ft. / 9.1 m | 6 in. / 15.2 cm | 3 in. / 7.6 cm (Rod) WH + 3 in. / 7.6 cm (Cable) |
| 10 | 50 ft. / 15.2 m | 3 in. / 7.5 cm | 0 ¹ (Rod) WH + 3 in. / 7.6 cm (Cable) |
| 35 | 50 ft. / 15.2 m | 0 ¹ in. / 0 ¹ cm | 0 ¹ (Rod / Cable) |

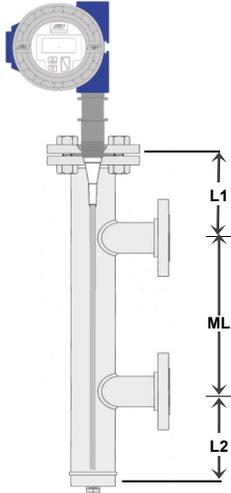
NOTES:

- L1 & L2 unmeasurable lengths of 0 may require use of linearization table and latching feature. For easiest startup use $L1_{min} \geq 3"$ or as listed if greater and $L2_{min} \geq 3"$ (rod) or $WH + 3"$ (cable).
- Maximum probe lengths are limited as indicated in Table 2A.
- Stilling well size will determine minimum dielectric constant.

MT5000 Recommended Installation

NOTE: The following guidelines are very conservative. If you have an application that exceeds these limits consult factory for application recommendations.

6. SINGLE PROBE - EXTERNAL CHAMBER



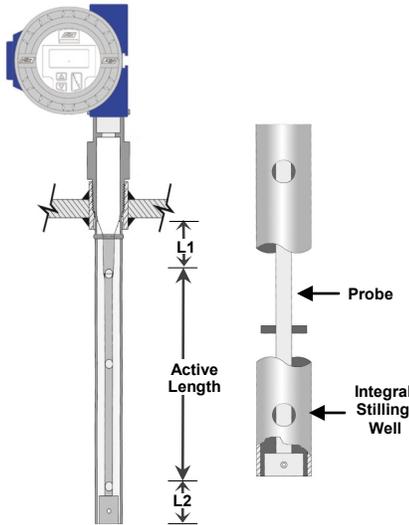
| MINIMUM DIELECTRIC CONSTANT | L MAXIMUM PROBE LENGTH ² | L1 Unmeasurable ¹ | L2 Unmeasurable ¹ (WH = Weight Height) |
|-----------------------------|-------------------------------------|--|---|
| 1.7 ³ | 20 ft. / 6.1 m | 9 in. / 22.86 cm | 3 in. / 7.6 cm (Rod) WH + 3 in. / 7.6 cm (Cable) |
| 3 | 30 ft. / 9.1 m | 6 in. / 15.2 cm | 3 in. / 7.6 cm (Rod) WH + 3 in. / 7.6 cm (Cable) |
| 10 | 50 ft. / 15.2 m | 3 in. / 7.5 cm | 0 ¹ (Rod) WH + 3 in. / 7.6 cm (Cable) |
| 35 | 50 ft. / 15.2 m | 0 ¹ in. / 0 ¹ cm | 0 ¹ (Rod / Cable) |

NOTES:

- L1 & L2 unmeasurable lengths of 0 may require use of linearization table and latching feature. For easiest startup use $L1_{min} \geq 3''$ or as listed if greater and $L2_{min} \geq 3''$ (rod) or $WH + 3''$ (cable).
- Maximum probe lengths are limited as indicated in Table 2A.
- Chamber size will determine minimum dielectric constant.

7. COAXIAL PROBE

[(rod inside of outer tube) clean liquids only]

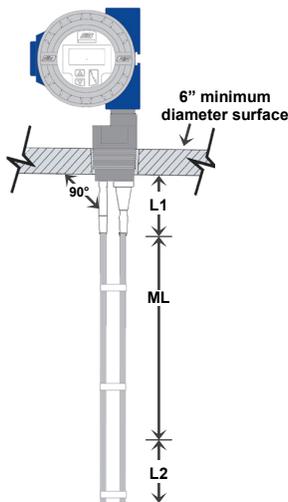


| MINIMUM DIELECTRIC CONSTANT | L MAXIMUM PROBE LENGTH ² | L1 Unmeasurable ¹ | L2 Unmeasurable ¹ |
|-----------------------------|-------------------------------------|------------------------------|------------------------------|
| 1.4 | 20 ft. / 6.1 m | 4 in. / 10.2 cm | 1 in. / 2.5 cm |
| 2.0 | 20 ft. / 6.1 m | 2 in. / 5.1 cm | 1 in. / 2.5 cm |
| 4.0 | 20 ft. / 6.1 m | 0 in. / 0 cm | 0.5 in. / 1.3 cm |

NOTES:

- L1 & L2 unmeasurable lengths of 0 may require use of linearization table and latching feature. For easiest startup use $L1_{min} \geq 3''$ or as listed if greater and $L2_{min} \geq 3''$ (rod) or $WH + 3''$ (cable).
- Maximum probe lengths are limited as indicated in Table 2A.
- Typically used in low dielectric, clean liquids.

8. DUAL PROBE - FLAT PLATE



| MINIMUM DIELECTRIC CONSTANT | L MAXIMUM PROBE LENGTH ² | L1 Unmeasurable ¹ | L2 Unmeasurable ¹ (WH = Weight Height) |
|-----------------------------|-------------------------------------|--|---|
| 3 | 20 ft. / 6.1 m | 6 in. / 15.2 cm | 3 in. / 7.6 cm (Rod) WH + 3 in. / 7.6 cm (Cable) |
| 4 | 20 ft. / 6.1 m | 3 in. / 7.5 cm | 3 in. / 7.6 cm (Rod) WH + 3 in. / 7.6 cm (Cable) |
| 10 | 100 ft. / 30.5 m | 0 ¹ in. / 0 ¹ cm | 0 ¹ (Rod / Cable) |

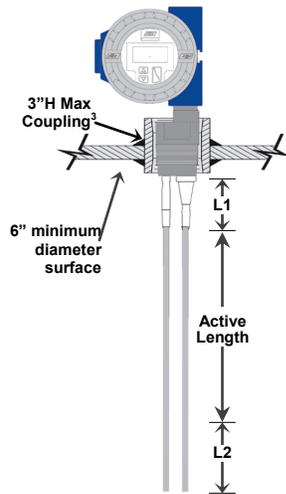
NOTES:

- L1 & L2 unmeasurable lengths of 0 may require use of linearization table and latching feature. For easiest startup use $L1_{min} \geq 3''$ or as listed if greater and $L2_{min} \geq 3''$ (rod) or $WH + 3''$ (cable).
- Maximum probe lengths are limited as indicated in Table 2A.

MT5000 Recommended Installation

NOTE: The following guidelines are very conservative. If you have an application that exceeds these limits consult factory for application recommendations.

9. DUAL PROBE - FLAT PLATE WITH COUPLING



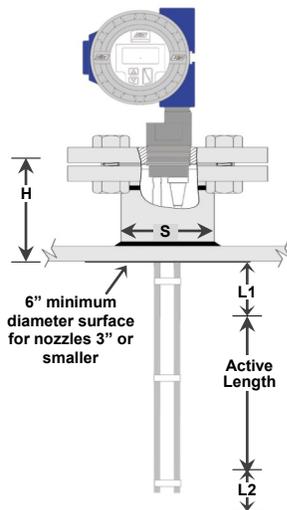
| MINIMUM DIELECTRIC CONSTANT | L MAXIMUM PROBE LENGTH ² | L1 Unmeasurable ¹ | L2 Unmeasurable ¹ |
|-----------------------------|-------------------------------------|--|---|
| 3 | 20 ft. / 6.1 m | 6 in. / 15.2 cm | 3 in. / 7.6 cm (Rod) WH + 3 in. / 7.6 cm (Cable) |
| 4 | 20 ft. / 6.1 m | 3 in. / 7.5 cm | 3 in. / 7.6 cm (Rod) WH + 3 in. / 7.6 cm (Cable) |
| 10 | 100 ft. / 30.5 m | 0 ¹ in. / 0 ¹ cm | 0 ¹ (Rod / Cable) |

NOTES:

1. L1 & L2 unmeasurable lengths of 0 may require use of linearization table and latching feature. For easiest startup use $L1_{min} \geq 3"$ or as listed if greater and $L2_{min} \geq 3"$ (rod) or $WH + 3"$ (cable).
2. Maximum probe lengths are limited as indicated in Table 2A.
3. The coupling should not extend into the vessel more than 1" / 25 mm.

10A. DUAL PROBE - NOZZLE & FLANGE

[height of nozzle (H) greater than width of nozzle (S)]



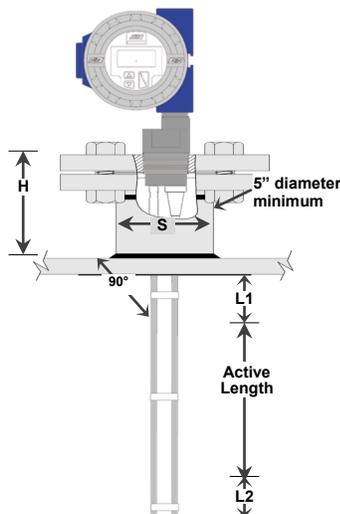
| MINIMUM DIELECTRIC CONSTANT | L MAXIMUM PROBE LENGTH ² | L1 Unmeasurable ¹ | L2 Unmeasurable ¹ |
|-----------------------------|-------------------------------------|--|---|
| 3 | 20 ft. / 6.1 m | 6 in. / 15.2 cm | 3 in. / 7.6 cm (Rod) WH + 3 in. / 7.6 cm (Cable) |
| 4 | 20 ft. / 6.1 m | 3 in. / 7.5 cm | 3 in. / 7.6 cm (Rod) WH + 3 in. / 7.6 cm (Cable) |
| 10 | 100 ft. / 30.5 m | 0 ¹ in. / 0 ¹ cm | 0 ¹ (Rod / Cable) |

NOTES:

1. L1 & L2 unmeasurable lengths of 0 may require use of linearization table and latching feature. For easiest startup use $L1_{min} \geq 3"$ or as listed if greater and $L2_{min} \geq 3"$ (rod) or $WH + 3"$ (cable).
2. Maximum probe lengths are limited as indicated in Table 2A.
3. A one time startup adjustment is required to eliminate the effect of the nozzle. For details refer to the Blanking Parameter in the Commissioning section of the Installation & Operation Manual.

10B. DUAL PROBE - NOZZLE & FLANGE

[height of nozzle (H) less than width of nozzle (S)]



| MINIMUM DIELECTRIC CONSTANT | L MAXIMUM PROBE LENGTH ² | L1 Unmeasurable ¹ | L2 Unmeasurable ¹ |
|-----------------------------|-------------------------------------|--|---|
| 3 | 20 ft. / 6.1 m | 6 in. / 15.2 cm | 3 in. / 7.6 cm (Rod) WH + 3 in. / 7.6 cm (Cable) |
| 4 | 20 ft. / 6.1 m | 3 in. / 7.5 cm | 3 in. / 7.6 cm (Rod) WH + 3 in. / 7.6 cm (Cable) |
| 10 | 100 ft. / 30.5 m | 0 ¹ in. / 0 ¹ cm | 0 ¹ (Rod / Cable) |

NOTES:

1. L1 & L2 unmeasurable lengths of 0 may require use of linearization table and latching feature. For easiest startup use $L1_{min} \geq 3"$ or as listed if greater and $L2_{min} \geq 3"$ (rod) or $WH + 3"$ (cable).
2. Maximum probe lengths are limited as indicated in Table 2A.

MT5000 Guided Wave Radar Probe Attachments

| Cable Weights | | | | | |
|---------------|----------|---------------------|--------------------|-----------------|-------------------|
| Part No. | Material | O.D. | Weight Height (WH) | Weight | Compatible Probes |
| CW09D-S6 | 316SS | 0.875 in. / 22.2 mm | 4.0 in. / 101.6 mm | 0.7 lbs / 301 g | P11 |
| CW09D-S4 | 304SS | | | 0.8 lbs / 324 g | |
| CW09D-MO | Monel | | | | |
| CW10D-S6 | 316SS | 1.0 in. / 25.4 mm | 6.0 in. / 152.4 mm | 1.3 lbs / 590 g | P11 |
| CW10D-S4 | 304SS | | | 1.4 lbs / 635 g | |
| CW10D-MO | Monel | | | | |
| CW10E-S6 | 316SS | | | 1.3 lbs / 590 g | P12 |
| CW10E-S4 | 304SS | | | 1.4 lbs / 635 g | |
| CW10E-MO | Monel | | | | |
| CW16F-S6 | 316SS | 1.625 in. / 41.3 mm | 2.0 in. / 50.8 mm | 1.1 lbs / 499 g | P11, P31 |
| CW16F-S4 | 304SS | | | 1.2 lbs / 544 g | |
| CW16F-MO | Monel | | | | |
| CW19G-S6 | 316SS | 1.875 in. / 47.6 mm | 2.0 in. / 50.8 mm | 1.5 lbs / 680 g | P12, P32 |
| CW19G-S4 | 304SS | | | 1.6 lbs / 726 g | |
| CW19G-MO | Monel | | | | |
| CW29F-S6 | 316SS | 2.875 in. / 73.3 mm | 1.0 in. / 25.4 mm | 1.8 lbs / 816 g | P11, P31 |
| CW29F-S4 | 304SS | | | 2.0 lbs / 907 g | |
| CW29F-MO | Monel | | | | |
| CW29G-S6 | 316SS | | | 1.8 lbs / 816 g | P12, P32 |
| CW29G-S4 | 304SS | | | 2.0 lbs / 907 g | |
| CW29G-MO | Monel | | | | |

For included weights on /P34 and /P43 probes use code /CW-S6

| Centering Disks | | | | |
|-----------------|--------------------|-------------------|-------------------|----------------------------|
| Part No. | O.D. | Height | Compatible Probes | Minimum Stilling Well Size |
| CD15B-% | 1.5 in / 38.1 mm | 0.375 in / 9.5 mm | P01 | 1.5 in sch. 40 |
| CD15C-% | | 0.5 in / 12.7 mm | P02 | |
| CD15I-% | | 0.4375 in / 11 mm | P03 | |
| CD20B-% | 2.0 in. / 50.8 mm | 0.375 in / 9.5 mm | P01 | 2 in sch. 40 |
| CD20C-% | | 0.5 in / 12.7 mm | P02 | |
| CD20I-% | | 0.4375 in / 11 mm | P03 | |
| CD23B-% | 2.3 in. / 58.7 mm | 0.375 in / 9.5 mm | P01 | 2.5 in sch. 40 |
| CD23C-% | | 0.5 in / 12.7 mm | P02 | |
| CD23I-% | | 0.4375 in / 11 mm | P03 | |
| CD28B-% | 2.8 in. / 71.1 mm | 0.375 in / 9.5 mm | P01 | 3 in sch. 80 |
| CD28C-% | | 0.5 in / 12.7 mm | P02 | |
| CD28I-% | | 0.4375 in / 11 mm | P03 | |
| CD38B-% | 3.75 in. / 95.3 mm | 0.375 in / 9.5 mm | P01 | 4 in sch. 80 |
| CD38C-% | | 0.5 in / 12.7 mm | P02 | |
| CD38I-% | | 0.4375 in / 11 mm | P03 | |

% - enter material code from /a

Quotation Request - MT5000 SERIES Guided Wave Radar

Tel (1) 225-673-6100 Email:sales@ktekcorp.com Date: _____

Fax (1) 225-673-2525 Attn: _____

Customer: _____
 Phone #: _____
 Email: _____
 Rep Firm: _____
 Phone #: _____
 Email: _____

Contact: _____
 Fax #: _____
 Project: _____
 Contact: _____
 Fax #: _____

Process Conditions: TAG: _____

Material To Be Measured: _____ Dielectric Constant: _____

Is Material: Solid Liquid Liquid/Liquid Interface (Refer to MT5100 Level and Interface Level Measurement Data Sheet (MT5100-0202-1) for more information.)

If Solid: Particle Diameter: _____ Bulk Density _____ **pcf / kg/m³**

If Liquid / Liquid Interface: Upper Dielectric Constant: _____ Lower Dielectric Constant: _____

Flooded Sensor Non-flooded Sensor

Temperature: Operating: _____ Maximum: _____ °F / °C / °K

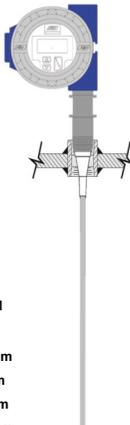
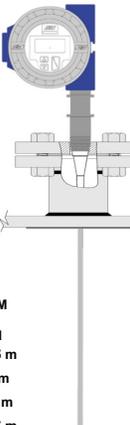
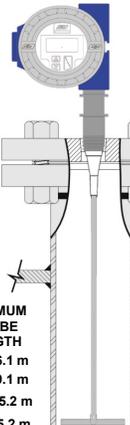
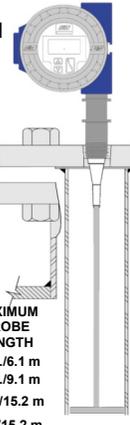
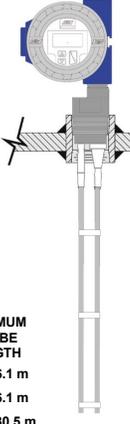
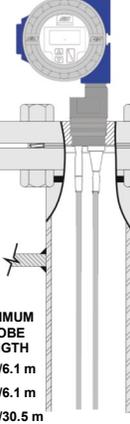
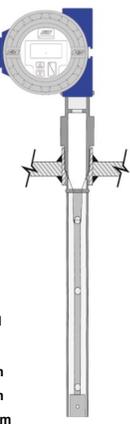
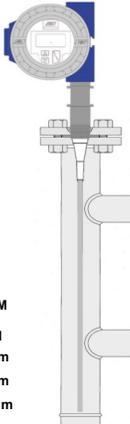
Pressure: Operating: _____ Maximum: _____ PSIG / KG / BAR

Agitation: None Minimal Heavy

Foam: No Yes: Foam Density: Light Heavy

Buildup: None Light Heavy (Single Probe designs recommended with heavy buildup)

Select mounting configuration closest to your application: (*Not for liquid / liquid interface)

| <p>Flat Plate Or Coupling</p>  <p>* </p> <table border="1"> <thead> <tr> <th>MINIMUM DIELECTRIC CONSTANT</th> <th>MAXIMUM PROBE LENGTH</th> </tr> </thead> <tbody> <tr> <td>1.3'</td> <td>100 ft./30.5 m</td> </tr> <tr> <td>4</td> <td>20 ft./6.1 m</td> </tr> <tr> <td>10</td> <td>40 ft./12.2 m</td> </tr> <tr> <td>35</td> <td>100 ft./30.5 m</td> </tr> </tbody> </table> | MINIMUM DIELECTRIC CONSTANT | MAXIMUM PROBE LENGTH | 1.3' | 100 ft./30.5 m | 4 | 20 ft./6.1 m | 10 | 40 ft./12.2 m | 35 | 100 ft./30.5 m | <p>Nozzle & Flange</p>  <p>* </p> <table border="1"> <thead> <tr> <th>MINIMUM DIELECTRIC CONSTANT</th> <th>MAXIMUM PROBE LENGTH</th> </tr> </thead> <tbody> <tr> <td>1.3'</td> <td>100 ft./30.5 m</td> </tr> <tr> <td>4</td> <td>20 ft./6.1 m</td> </tr> <tr> <td>10</td> <td>40 ft./12.2 m</td> </tr> <tr> <td>35</td> <td>100 ft./30.5 m</td> </tr> </tbody> </table> | MINIMUM DIELECTRIC CONSTANT | MAXIMUM PROBE LENGTH | 1.3' | 100 ft./30.5 m | 4 | 20 ft./6.1 m | 10 | 40 ft./12.2 m | 35 | 100 ft./30.5 m | <p>Permanent Stilling Well</p>  <table border="1"> <thead> <tr> <th>MINIMUM DIELECTRIC CONSTANT</th> <th>MAXIMUM PROBE LENGTH</th> </tr> </thead> <tbody> <tr> <td>1.7</td> <td>20 ft./6.1 m</td> </tr> <tr> <td>3</td> <td>30 ft./9.1 m</td> </tr> <tr> <td>10</td> <td>50 ft./15.2 m</td> </tr> <tr> <td>35</td> <td>50 ft./15.2 m</td> </tr> </tbody> </table> | MINIMUM DIELECTRIC CONSTANT | MAXIMUM PROBE LENGTH | 1.7 | 20 ft./6.1 m | 3 | 30 ft./9.1 m | 10 | 50 ft./15.2 m | 35 | 50 ft./15.2 m | <p>Removable Stilling Well</p>  <table border="1"> <thead> <tr> <th>MINIMUM DIELECTRIC CONSTANT</th> <th>MAXIMUM PROBE LENGTH</th> </tr> </thead> <tbody> <tr> <td>1.7</td> <td>20 ft./6.1 m</td> </tr> <tr> <td>3</td> <td>30 ft./9.1 m</td> </tr> <tr> <td>10</td> <td>50 ft./15.2 m</td> </tr> <tr> <td>35</td> <td>50 ft./15.2 m</td> </tr> </tbody> </table> | MINIMUM DIELECTRIC CONSTANT | MAXIMUM PROBE LENGTH | 1.7 | 20 ft./6.1 m | 3 | 30 ft./9.1 m | 10 | 50 ft./15.2 m | 35 | 50 ft./15.2 m |
|--|-----------------------------|----------------------|------|----------------|---|--------------|----|----------------|---|-----------------------------|---|-----------------------------|----------------------|------|----------------|----|----------------|---|-----------------------------|----------------------|----------------|--|-----------------------------|----------------------|-----|----------------|--|-----------------------------|----------------------|---------------|--------------|---------------|---|-----------------------------|----------------------|-----|---------------|---|--------------|----|---------------|----|---------------|
| MINIMUM DIELECTRIC CONSTANT | MAXIMUM PROBE LENGTH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.3' | 100 ft./30.5 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 20 ft./6.1 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 40 ft./12.2 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | 100 ft./30.5 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MINIMUM DIELECTRIC CONSTANT | MAXIMUM PROBE LENGTH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.3' | 100 ft./30.5 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 20 ft./6.1 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 40 ft./12.2 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | 100 ft./30.5 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MINIMUM DIELECTRIC CONSTANT | MAXIMUM PROBE LENGTH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.7 | 20 ft./6.1 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 30 ft./9.1 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 50 ft./15.2 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | 50 ft./15.2 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MINIMUM DIELECTRIC CONSTANT | MAXIMUM PROBE LENGTH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.7 | 20 ft./6.1 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 30 ft./9.1 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 50 ft./15.2 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | 50 ft./15.2 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Dual Rod Flat Plate or Coupling</p>  <table border="1"> <thead> <tr> <th>MINIMUM DIELECTRIC CONSTANT</th> <th>MAXIMUM PROBE LENGTH</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>20 ft./6.1 m</td> </tr> <tr> <td>4</td> <td>20 ft./6.1 m</td> </tr> <tr> <td>10</td> <td>100 ft./30.5 m</td> </tr> </tbody> </table> | MINIMUM DIELECTRIC CONSTANT | MAXIMUM PROBE LENGTH | 3 | 20 ft./6.1 m | 4 | 20 ft./6.1 m | 10 | 100 ft./30.5 m | <p>Dual Rod Nozzle & Flange</p>  <table border="1"> <thead> <tr> <th>MINIMUM DIELECTRIC CONSTANT</th> <th>MAXIMUM PROBE LENGTH</th> </tr> </thead> <tbody> <tr> <td>2.5</td> <td>20 ft./6.1 m</td> </tr> <tr> <td>4</td> <td>20 ft./6.1 m</td> </tr> <tr> <td>10</td> <td>100 ft./30.5 m</td> </tr> </tbody> </table> | MINIMUM DIELECTRIC CONSTANT | MAXIMUM PROBE LENGTH | 2.5 | 20 ft./6.1 m | 4 | 20 ft./6.1 m | 10 | 100 ft./30.5 m | <p>Coaxial Probe</p>  <table border="1"> <thead> <tr> <th>MINIMUM DIELECTRIC CONSTANT</th> <th>MAXIMUM PROBE LENGTH</th> </tr> </thead> <tbody> <tr> <td>1.4</td> <td>20 ft./6.1 m</td> </tr> <tr> <td>4</td> <td>20 ft./6.1 m</td> </tr> <tr> <td>10</td> <td>100 ft./30.5 m</td> </tr> </tbody> </table> | MINIMUM DIELECTRIC CONSTANT | MAXIMUM PROBE LENGTH | 1.4 | 20 ft./6.1 m | 4 | 20 ft./6.1 m | 10 | 100 ft./30.5 m | <p>External Chamber</p>  <table border="1"> <thead> <tr> <th>MINIMUM DIELECTRIC CONSTANT</th> <th>MAXIMUM PROBE LENGTH</th> </tr> </thead> <tbody> <tr> <td>1.7</td> <td>20 ft./6.1 m</td> </tr> <tr> <td>3</td> <td>30 ft./9.1 m</td> </tr> <tr> <td>10</td> <td>50 ft./15.2 m</td> </tr> <tr> <td>35</td> <td>50 ft./15.2 m</td> </tr> </tbody> </table> | MINIMUM DIELECTRIC CONSTANT | MAXIMUM PROBE LENGTH | 1.7 | 20 ft./6.1 m | 3 | 30 ft./9.1 m | 10 | 50 ft./15.2 m | 35 | 50 ft./15.2 m | | | | | | |
| MINIMUM DIELECTRIC CONSTANT | MAXIMUM PROBE LENGTH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 20 ft./6.1 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 20 ft./6.1 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 100 ft./30.5 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MINIMUM DIELECTRIC CONSTANT | MAXIMUM PROBE LENGTH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5 | 20 ft./6.1 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 20 ft./6.1 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 100 ft./30.5 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MINIMUM DIELECTRIC CONSTANT | MAXIMUM PROBE LENGTH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.4 | 20 ft./6.1 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 20 ft./6.1 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 100 ft./30.5 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MINIMUM DIELECTRIC CONSTANT | MAXIMUM PROBE LENGTH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.7 | 20 ft./6.1 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 30 ft./9.1 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 50 ft./15.2 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | 50 ft./15.2 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1. Accuracy subject to changes in dielectric constant. Ultra-Low Dielectric (ULD) measurement method supports dielectric constants from 1.3 to a maximum of 2.5.

Quotation Request

Material & Connections:

Process Connection: MNPT RF Flange Tri-Clamp Other

Process Connection Description: _____

Probe Material: 316L SS Hast C276 Hast B3 Monel Titanium Inconel 625
Probe Type: Solid Rod Cable (316SS & Monel Only)
 Sanitary Rod Specify Finish 180 Grit 240 Grit 240 Grit & EP

(Refer to chart for part numbers)

Centering Disk (Solid Rod): Yes No P/N: _____ If blank, K-TEK will choose.

Centering Weight (Cables): Yes No P/N: _____ If blank, K-TEK will choose.

Housing & Electronics Options:

Aluminum Dual Compartment Housing (standard) 316L SS Dual Compartment Housing Window Cover

HART MODBUS Foundation Fieldbus

Vessel / Application Details:

specify by circling

Total Insertion Length (Bottom of process fitting to end of probe): _____ in / ft / cm / m Other: _____

Standard Lengths for field modification to final length: _____

Custom Lengths for final length by K-TEK _____

Mounting:

Directly on roof of tank Mounted on Nozzle: nozzle height: _____ diameter: _____

In existing stilling well - describe: _____

In new stilling well - describe: _____

In external chamber - describe: _____

Stilling well or external chamber to be supplied with transmitter: Yes No

Approval Required:

FM Factory Mutual

XP-IS / I / 1 / ABCD / T6 Ta = 77°C
DIP / II, III / 1 / EFG / T6 Ta = 77°C
IS / I / 1 / ABCD / T4 Ta = 77°C - ELE1034
NI / I / 2 / ABCD / T4 Ta = 77°C
S / II, III / 2 / FG / T4 Ta = 77°C
ANI / I / 2 / ABCD / T4 - ELE1034

Type 4X

Canadian Standards Association

XP CL 1, DIV 1, GP ABCD; CL 2, DIV 1, GP EFG; CL 3 - T6
CL 1, DIV 2, GP ABCD; CL 2, DIV 2, GP EFG - T5
IS CL 1, DIV 1, GP CD; CL 2, DIV 1, GP EFG - T4
- when installed per ELE1034
Type 4X

GOST Russian

1Exd[ia]IIC T6, 0Exia IIB T6, IP67

UKRSEPRO

1Exdia IIC T6, 0Exia IIB T4

IEC International Electromechanical Commission

IECEx ITS 08.0036X

II 1/2 G/D
Ex ia IIB T4 (-40°C ≤ Tamb ≤ 66°C)
Ex iaD 20/21 IP6X T80°C (-40°C ≤ 66°C)

IECEx ITS 08.0037X

Ex ia d IIC T4
Ex iaD tD 20/A21 IP6X T80°C

ATEX

ITS 08ATEX25865X

Ex ia IIB T4 (-40°C ≤ Tamb ≤ 66°C)
Ex iaD 20/21 IP6X T80°C (-40°C Tamb ≤ 66°C)

ITS08 ATEX15870X

II 1/2 G/D Ex ia d IIC T6
Ex tD 20/A21 IP6X T80°C

Completed by K-TEK:

Quotation # _____ By: _____ Date: _____

Qty: _____ Part #: _____ Price: \$ _____

Options: _____

Note: All prices USD, EX-Works packed for shipping, FOB Factory, standard shipping 5 weeks ARO.

Additional notes or comments: _____

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