| Form P: Proposal Information |
| --- |
| Bidder: |       | Bidder Rep: |       |
| Notes:1. The City reserves the right to clarify, investigate, and request additional information to confirm the Bidder’s claim regarding any data provided.
2. The Bid Evaluation is not based solely upon the information submitted on this form.
3. This form is made available to Bidders in both PDF and Microsoft Word format. In the event of a discrepancy between the forms, the PDF version will take precedence.
4. Complete “Bidder Response” section in full. Failure to complete or submit required information may result in disqualification of the complete Bid.
5. If insufficient space is provided, attach additional sheets with required information.
 |
| **Item** | **Description** | **Bidder Response** |
| **.** | **Published Canadian Price List (Section A)** |
| **.** | **General** |
| .. | As requested in B13, is a published price list provided for all electromagnetic flowmeter, pressure transmitter, and temperature transmitter components? | [ ]  Yes, a published price list is provided:[ ]  The price list is in Canadian Dollars.[ ]  The price list is in US Dollars.[ ]  The price list is in Euros.[ ]  The price list is applicable for the following regions:             |
| .. | Is the price list comprehensive of the manufacturer’s entire electromagnetic flowmeter, pressure transmitter, and temperature transmitter offering, including all replacement parts? | [ ]  Yes[ ]  No. Provide details below:        |
| .. | Is the price list consistent with the prices and discounts indicated in Form B? | [ ]  Yes[ ]  No. Provide details below:        |
| **.** | **Electromagnetic Flowmeters (Section A)** |
| **.** | **General** |
| .. | Years of experience in the design and manufacture of electromagnetic flowmeters. | [ ]  <5 years[ ]  5 to 9 years[ ]  10 to 14 years[ ]  15 to 19 years[ ]  20 to 24 years[ ]  >25 years |
| .. | Approvals | Only indicate approvals applicable to all products proposed:[ ]  CSA[ ]  Applicable to all products proposed.[ ]  Applicable to some of the products proposed (list below)[ ]  UL – Canadian (cUL)[ ]  Applicable to all products proposed.[ ]  Applicable to some of the products proposed (list below)[ ]  FM – Canadian (cFM)[ ]  Applicable to all products proposed.[ ]  Applicable to some of the products proposed (list below)[ ]  Other Canadian Recognized Approval:      |
| .. | Documentation | [ ]  Product datasheets included with proposal[ ]  Product O&M manuals included with proposal |
| **.** | **Product Lifecycle Guarantee** |  |
| .. | Active sale and production guarantee  | [ ]  No plans to remove any of the proposed products from active sale and/or production are in place.[ ]  There are plans to remove the product for active sale and/or production, but plans call for: [ ]  5 or more years of active production.[ ]  3 or more years of active production.[ ]  Less than 3 years of active production and sale.Additional Details:       |
| .. | Product support guarantee | [ ]  The product is guaranteed to be operable, maintainable, and fully supported by the manufacturer, including availability of spare parts for the following duration after any of the proposed products are removed from active sale:[ ]  5 or more years. Years guaranteed:      [ ]  <5 years (Not acceptable)Additional Details:       |
| **.** | **Flow Tubes - General** |
| .. | ASME B16.5 (ANSI) Class 150 minimum size in the proposed product series | Minimum Size:[ ]  6 mm (1/4”)[ ]  12 mm (1/2”)[ ]  20 mm (3/4”)[ ]  25 mm (1”)[ ]  > 25 mm (>1”)[ ]  Other:       |
| .. | ASME B16.5 (ANSI) Class 150 maximum size in the proposed product series | Maximum Size:[ ]  600 mm (24”)[ ]  750 mm (30”)[ ]  900 mm (36”)[ ]  >900 mm (>36”)[ ]  Other:       |
| .. | Flowtube technology | [ ]  Pulse DC[ ]  AC[ ]  Other (identify below):       |
| .. | Available Liner Materials | [ ]  Ceramic[ ]  EPDM[ ]  ETFE[ ]  Neoprene[ ]  PFA[ ]  Polyurethane[ ]  PTFE (Teflon)[ ]  Rubber - Soft[ ]  Rubber - Ebonite[ ]  Rubber - Hard[ ]  Rubber - NBR[ ]  Rubber - Linatex[ ]  Other:      [ ]  Other:      [ ]  Other:       |
| .. | Available Electrode Materials | [ ]  Hastelloy C22[ ]  Hastelloy C276[ ]  Nickel Alloy[ ]  Tantalum[ ]  Titanium[ ]  Platinum[ ]  Platinum (80%) / Iridium (20%)[ ]  Platinum with Gold and Titanium[ ]  Stainless Steel - 316L[ ]  Other:      [ ]  Other:      [ ]  Other:       |
| .. | Available Electrode Styles | [ ]  Flat[ ]  Bulletnose[ ]  Other:       |
| .. | Available Grounding Options | [ ]  Grounding Straps[ ]  Grounding Electrodes[ ]  Grounding Rings[ ]  Lining Protectors (also act as Grounding Rings)[ ]  Other:       |
| .. | Flowtube housing material provided on all flowmeters, Type 1 through Type 6. | [ ]  Carbon Steel[ ]  Stainless Steel[ ]  Other:      If different materials are provided for Types 1 through 6, then indicate below which material is provided for each type of flowmeter:       |
| .. | Flowtube flange material provided on all flowmeters, Type 1 through Type 6 | [ ]  Carbon Steel[ ]  Stainless Steel[ ]  Other:      If different materials are provided for Types 1 through 6, then indicate below which material is provided for each type of flowmeter:       |
| **.** | **Transmitters** |
| .. | Indicate the compatible PROFIBUS PA Profile version(s) of the proposed electromagnetic flowmeters. | [ ]  PROFIBUS Profile Version 3.02[ ]  PROFIBUS Profile Version 3.01[ ]  PROFIBUS Profile Version 3.00[ ]  PROFIBUS Profile Version 2.x[ ]  Other:       |
| .. | Indicate the available device parameter file formats for integration of the proposed electromagnetic flowmeters on a PROFIBUS network. | [ ]  GSD (General Station Data) file certified by Profibus International[ ]  EDDL (Electronic Device Description Language)[ ]  FDT/DTM (Field Device Tool / Device Type Manager) |
| .. | Indicate optional capabilities regarding intrinsically safe outputs. | [ ]  Optional Intrinsically Safe HART output[ ]  Optional Intrinsically Safe PROFIBUS PA output[ ]  Other:        |
| .. | Is an internal totalizer available via the PROFIBUS and HART interfaces? | [ ]  Yes, both HART and PROFIBUS.[ ]  Yes, HART only.[ ]  Yes, PROFIBUS only.[ ]  Not available.[ ]  Other:        |
| .. | Is the display backlit? | [ ]  Yes[ ]  No[ ]  Other:        |
| .. | Integral transmitter enclosure material.  | Select the material that is proposed for flowmeter types 1, 2, and 3:[ ]  Aluminum[ ]  Stainless Steel[ ]  Polyamide [ ]  Polycarbonate[ ]  Other:        |
| .. | Wall-mount transmitter enclosure material | Select the material that is proposed for flowmeter types 4, 5, and 6:[ ]  Aluminum[ ]  Stainless Steel[ ]  Polyamide [ ]  Polycarbonate[ ]  Other:        |
| .. | Configuration security | [ ]  No configuration security is provided.[ ]  Configuration is password protected.[ ]  A jumper is provided to secure the configuration. |
| .. | Maximum cable length between flowtube and transmitter |       m |
| **.** | **Environmental** |
| .. | Indicate the ambient operating temperature range of the flowtube / sensor. |       to       °C |
| .. | Indicate the ambient operating temperature range of the integral local mounted transmitter. |       to       °C |
| .. | Indicate the ambient operating temperature range of the remote wall mount transmitter. |       to       °C |
| .. | Integral Local Transmitter Enclosure Rating | Check all that apply:[ ]  Unknown[ ]  NEMA 4[ ]  NEMA 4X (Specified)[ ]  IP67 (Specified)[ ]  NEMA 6 (Desired feature)[ ]  IP68 (Desired feature)[ ]  Other:       |
| .. | Remote Wall Mount Transmitter Enclosure Rating | Check all that apply:[ ]  Unknown[ ]  NEMA 4[ ]  NEMA 4X (Specified)[ ]  IP67 (Specified)[ ]  NEMA 6 (Desired feature)[ ]  IP68 (Desired feature)[ ]  Other:       |
| **.** | **Functionality** |
| .. | Indicate the functional features of the proposed flowmeter transmitters. | [ ]  Bi-directional flow measurement.[ ]  Simulation capability to override output for testing. |
| .. | How is the flowtube calibration data passed to a new field replaced transmitter? | [ ]  Cannot be accomplished in the field – requires factory involvement.[ ]  Via manual entry of a number stamped onto the flowtube.[ ]  Flowtube calibration data is stored within non-volatile memory within the sensor, and automatically passed to a new flowmeter transmitter.[ ]  Other:       |
| **.** | **Diagnostic Capabilities** |
| .. | Indicate the basic diagnostic capabilities of the flowmeters. | [ ]  Empty Pipe Detection[ ]  Electronics Temperature[ ]  Coil Fault[ ]  Transmitter Faults[ ]  Reverse Flow[ ]  Other:       |
| .. | Indicate the coil diagnostics capabilities. | [ ]  Coil Signature (Magnetic Field Strength)[ ]  Coil Resistance[ ]  Other:       |
| .. | Indicate the electrode diagnostics capabilities. | [ ]  Electrode Resistance[ ]  Other:       |
| .. | Describe means to verify the calibration of the flowmeter in the field, without performing a full known volume flow calibration: | [ ]  No field calibration verification is possible[ ]  A factory service representative can perform a calibration verification utilizing a special tool. [ ]  A meter verification tool is available for purchase to allow maintenance personnel to verify the calibration of the flowmeter.[ ]  The transmitter has built-in capability to measure and verify the calibration of the flowmeter.[ ]  Other:       |
| .. | Are all diagnostics available via the PROFIBUS interface (where specified)? | [ ]  Yes, all diagnostics are available via the PROFIBUS PA interface.[ ]  No, diagnostics are not available via the PROFIBUS PA interface.[ ]  Other:       |
| **.** | **Deficiencies and Additional Features** |
| .. | Identify any deficiencies where the proposed electromagnetic flowmeters do not meet the specifications or the intent of the specifications. Do not include any item clearly identified elsewhere on Form P. |       |
| .. | Identify any additional features applicable to all flowmeters proposed that:* significantly exceed the specified requirements,
* would be of benefit to the City of Winnipeg; and
* are included in the price in Form B.

Do not include any item identified elsewhere on Form P. |       |
| **.** | **Electromagnetic Flowmeter – Type 1, 50mm** |
| .. | Complete model numbers of the electromagnetic flowmeter proposed. | Flowtube:       Transmitter:       Grounding Rings:       Other:        |
| .. | Indicate the liner material utilized in the proposed electromagnetic flowmeters. | [ ]  PFA[ ]  PTFE (Teflon)[ ]  Ceramic[ ]  Other:        |
| .. | Indicate the electrode material utilized in the proposed electromagnetic flowmeters. | [ ]  316L stainless steel[ ]  Hastelloy C-22[ ]  Hastelloy C-276[ ]  Other:        |
| .. | Digital accuracy of the proposed electromagnetic flowmeter. Accuracy to include the combined effects of linearity, hysteresis, repeatability, and calibration uncertainty. | @ 0.5 m/s:       %@ 10 m/s:       %Other details:      |
| .. | Output Signal | [ ]  PROFIBUS PA (Specified)[ ]  4-20 mA output included with PROFIBUS output[ ]  HART[ ]  Other:        |
| .. | Identify any deficiencies where the proposed electromagnetic flowmeters do not meet the specifications or the intent of the specifications. Do not include any item clearly identified elsewhere on Form P. |       |
| **.** | **Electromagnetic Flowmeter – Type 2, 100mm** |
| .. | Complete model numbers of the electromagnetic flowmeter proposed. | Flowtube:       Transmitter:       Grounding Rings:       Other:        |
| .. | Indicate the liner material utilized in the proposed electromagnetic flowmeters. | [ ]  PFA[ ]  PTFE (Teflon)[ ]  Ceramic[ ]  EPDM[ ]  ETFE[ ]  Rubber - Ebonite[ ]  Other:        |
| .. | Indicate the electrode material utilized in the proposed electromagnetic flowmeters. | [ ]  316L stainless steel[ ]  Hastelloy C-22[ ]  Hastelloy C-276[ ]  Other:        |
| .. | Accuracy of the proposed electromagnetic flowmeter. Accuracy to include the combined effects of linearity, hysteresis, repeatability, and calibration uncertainty. | @ 0.5 m/s:       %@ 10 m/s:       %Other details:      |
| .. | Output Signal | [ ]  PROFIBUS PA (Specified)[ ]  4-20 mA output included with PROFIBUS output[ ]  HART[ ]  Other:        |
| .. | Identify any items where the proposed product does not meet the specifications or the intent of the specifications. |       |
| **.** | **Electromagnetic Flowmeter – Type 3, 150mm** |
| .. | Complete model numbers of the electromagnetic flowmeter proposed. | Flowtube:       Transmitter:       Grounding Rings:       Other:        |
| .. | Hazardous Location Approval – Flowtube and transmitter | [ ]  Unclassified[ ]  CSA Class I, Div/Zone 2[ ]  CSA Explosion Proof (Class I, Div/Zone 1)[ ]  Other:       |
| 2.. | Indicate the liner material utilized in the proposed electromagnetic flowmeters. | [ ]  PFA (Perfluoroalkoxy)[ ]  PTFE (Teflon)[ ]  Ceramic[ ]  Other:        |
| .. | Indicate the electrode material utilized in the proposed electromagnetic flowmeters. | [ ]  316L stainless steel[ ]  Hastelloy C-22[ ]  Hastelloy C-276[ ]  Other:        |
| .. | Accuracy of the proposed electromagnetic flowmeter. Accuracy to include the combined effects of linearity, hysteresis, repeatability, and calibration uncertainty. | @ 0.5 m/s:       %@ 10 m/s:       %Other details:      |
| .. | Output Signal | [ ]  PROFIBUS PA (Specified)[ ]  4-20 mA output included with PROFIBUS output[ ]  HART[ ]  Other:        |
| .. | Identify any deficiencies where the proposed electromagnetic flowmeters do not meet the specifications or the intent of the specifications. Do not include any item clearly identified elsewhere on Form P. |       |
| **.** | **Electromagnetic Flowmeter – Type 4, 200mm** |
| .. | Complete model numbers of the electromagnetic flowmeter proposed. | Flowtube:       Transmitter:       Grounding Rings:       Other:        |
| .. | Hazardous Location Approval – Flowtube | [ ]  Unclassified[ ]  CSA Class I, Div/Zone 2[ ]  CSA Explosion Proof (Class I, Div/Zone 1)[ ]  Other:       |
| .. | Hazardous Location Approval – Transmitter | [ ]  Unclassified[ ]  CSA Class I, Div/Zone 2[ ]  CSA Explosion Proof (Class I, Div/Zone 1)[ ]  Other:       |
| .. | Indicate the liner material utilized in the proposed electromagnetic flowmeters. | [ ]  PFA (Perfluoroalkoxy)[ ]  PTFE (Teflon)[ ]  Polyurethane[ ]  Neoprene[ ]  Other:        |
| .. | Indicate the electrode material utilized in the proposed electromagnetic flowmeters. | [ ]  316L stainless steel[ ]  Hastelloy C-22[ ]  Hastelloy C-276[ ]  Other:        |
| .. | Accuracy of the proposed electromagnetic flowmeter. Accuracy to include the combined effects of linearity, hysteresis, repeatability, and calibration uncertainty. | @ 0.5 m/s:       %@ 10 m/s:       %Other details:      |
| .. | Output Signal | [ ]  PROFIBUS PA (Specified)[ ]  4-20 mA output included with PROFIBUS output[ ]  HART[ ]  Other:        |
| .. | Identify any deficiencies where the proposed electromagnetic flowmeters do not meet the specifications or the intent of the specifications. Do not include any item clearly identified elsewhere on Form P. |       |
| **.** | **Electromagnetic Flowmeter – Type 5, 400mm** |
| .. | Complete model numbers of the electromagnetic flowmeter proposed. | Flowtube:       Transmitter:       Grounding Rings:       Other:        |
| .. | Hazardous Location Approval - Flowtube | [ ]  Unclassified[ ]  CSA Class I, Div/Zone 2[ ]  CSA Explosion Proof (Class I, Div/Zone 1)[ ]  Other:       |
| .. | Hazardous Location Approval – Transmitter | [ ]  Unclassified[ ]  CSA Class I, Div/Zone 2[ ]  CSA Explosion Proof (Class I, Div/Zone 1)[ ]  Other:       |
| .. | Indicate the liner material utilized in the proposed electromagnetic flowmeters. | [ ]  PFA (Perfluoroalkoxy)[ ]  PTFE (Teflon)[ ]  Polyurethane[ ]  Neoprene[ ]  Other:        |
| .. | Indicate the electrode material utilized in the proposed electromagnetic flowmeters. | [ ]  316L stainless steel[ ]  Hastelloy C-22[ ]  Hastelloy C-276[ ]  Other:        |
| .. | Accuracy of the proposed electromagnetic flowmeter. Accuracy to include the combined effects of linearity, hysteresis, repeatability, and calibration uncertainty. | @ 0.5 m/s:       %@ 10 m/s:       %Other details:      |
| .. | Output Signal | [ ]  PROFIBUS PA (Specified)[ ]  4-20 mA output included with PROFIBUS output[ ]  HART[ ]  Other:        |
| .. | Identify any deficiencies where the proposed electromagnetic flowmeters do not meet the specifications or the intent of the specifications. Do not include any item clearly identified elsewhere on Form P. |       |
| **.** | **Electromagnetic Flowmeter – Type 6, 750mm** |
| .. | Complete model numbers of the electromagnetic flowmeter proposed. | Flowtube:       Transmitter:       Grounding Rings:       Other:        |
| .. | Hazardous Location Approval - Flowtube | [ ]  Unclassified[ ]  CSA Class I, Div/Zone 2[ ]  CSA Explosion Proof (Class I, Div/Zone 1)[ ]  Other:       |
| .. | Hazardous Location Approval – Transmitter | [ ]  Unclassified[ ]  CSA Class I, Div/Zone 2[ ]  CSA Explosion Proof (Class I, Div/Zone 1)[ ]  Other:       |
| .. | Indicate the liner material utilized in the proposed electromagnetic flowmeters. | [ ]  Neoprene[ ]  PFA (Perfluoroalkoxy)[ ]  PTFE (Teflon)[ ]  Polyurethane[ ]  Other:        |
| .. | Indicate the electrode material utilized in the proposed electromagnetic flowmeters. | [ ]  316L stainless steel[ ]  Hastelloy C-22[ ]  Hastelloy C-276[ ]  Other:        |
| .. | Indicate the submergence rating provided. | [ ]  Not rated for submergence[ ]  Rated for submergence to the following depth:       m |
| .. | Accuracy of the proposed electromagnetic flowmeter. Accuracy to include the combined effects of linearity, hysteresis, repeatability, and calibration uncertainty. | @ 0.5 m/s:       %@ 10 m/s:       %Other details:      |
| .. | Output Signal | [ ]  PROFIBUS PA (Specified)[ ]  4-20 mA output included with PROFIBUS output[ ]  HART[ ]  Other:        |
| .. | Identify any deficiencies where the proposed electromagnetic flowmeters do not meet the specifications or the intent of the specifications. Do not include any item clearly identified elsewhere on Form P. |       |
| **.** | **Electromagnetic Flowmeter Calibration Verification Tool (Non-Mandatory)** |
| .. | Information regarding the Electromagnetic Flowmeter Calibration Verification Tool proposed. | [ ]  A tool is not proposed.[ ]  A tool is proposed as per below:Model Number:       Accessories:       Other:        |
| .. | Hazardous Location Approval | [ ]  Unclassified[ ]  CSA Class I, Div/Zone 2[ ]  CSA Explosion Proof (Class I, Div/Zone 1)[ ]  Other:       |
| .. | Identify the disassembly and connection requirements required to perform the calibration verification. Check all that apply. | [ ]  Removal of the flowtube[ ]  Removal of the transmitter[ ]  Connection to the flowtube[ ]  Connection to the transmitter[ ]  Other:        |
| .. | Indicate the components tested by the tool. | [ ]  Transmitter[ ]  Flowtube[ ]  Wiring Insulation[ ]  Magnetism[ ]  Other:        |
| .. | Indicate the presentation of the calibration verification tool results. | [ ]  Results not indicated.[ ]  Pass / fail displayed on screen.[ ]  Measurements displayed on screen.[ ]  Measurements displayed on computer screen.[ ]  Basic report transferable to a computer for printing.[ ]  Detailed report transferable to a computer for printing.Other details:        |
| .. | Indicate the certified accuracy of the calibration verification. | [ ]  Accuracy of verification is not documented.[ ]  The tool can certify that the complete flowmeter installation is within       % of the factory calibration. |
| **.** | **Pressure Transmitters (Section A)** |
| **.** | **General** |
| .. | Years of experience in the design and manufacture of pressure transmitters. | [ ]  <5 years[ ]  5 to 9 years[ ]  10 to 14 years[ ]  15 to 19 years[ ]  20 to 24 years[ ]  >25 years |
| .. | Documentation | [ ]  Product datasheets included with proposal[ ]  Product O&M manuals included with proposal |
| **.** | **Product Lifecycle Guarantee** |
| .. | Active sale and production guarantee  | [ ]  No plans to remove any of the proposed products from active sale and/or production are in place.[ ]  There are plans to remove the product for active sale and/or production, but plans call for: [ ]  5 or more years of active production.[ ]  3 or more years of active production.[ ]  Less than 3 years of active production and sale.Additional Details:       |
| .. | Product support guarantee | [ ]  The product is guaranteed to be operable, maintainable, and fully supported by the manufacturer, including availability of spare parts for the following duration after any of the proposed products are removed from active sale:[ ]  5 or more years. Years guaranteed:      [ ]  <5 years (Not acceptable)Additional Details:       |
| **.** | **Environmental and Ingress Protection** |
| .. | Operating temperature range |       to       °C |
| .. | Enclosure Rating | Check all that apply:[ ]  Unknown[ ]  NEMA 4[ ]  NEMA 4X (Specified)[ ]  IP67 (Specified)[ ]  NEMA 6 (Desired feature)[ ]  IP68 (Desired feature)[ ]  Other:       |
| **.** | **Local Operator Interface** |
| .. | Display | [ ]  Display not provided (Does not meet specification)[ ]  Display Provided[ ]  Indicates pressure unit of measurement.[ ]  Backlit[ ]  Display is rotatable in the field.[ ]  Diagnostic / fault indicator[ ]  Other features (Indicate below):       |
| **.** | **Functionality** |
| .. | Indicate the functional features of the proposed pressure transmitter(s). | [ ]  Configuration security protection via jumper and/or software password.[ ]  Simulation capability to override output for testing. |
| **.** | **Communication** |
| .. | Indicate the compatible PA Profile version(s) of the proposed pressure transmitters. | [ ]  PROFIBUS Profile Version 3.02[ ]  PROFIBUS Profile Version 3.01[ ]  PROFIBUS Profile Version 3.00[ ]  PROFIBUS Profile Version 2.x[ ]  Other:       |
| .. | Indicate the available device parameter file formats for integration of the proposed temperature transmitters on a PROFIBUS network. | [ ]  GSD (General Station Data) file certified by Profibus International[ ]  EDDL (Electronic Device Description Language)[ ]  FDT/DTM (Field Device Tool / Device Type Manager) |
| .. | Indicate the PROFIBUS output data update rate. | [ ]  Unknown[ ]  As per below:      ms |
| .. | Power supply | [ ]  Power supply independent of communication bus (Does not meet specifications)[ ]  PROFIBUS PA bus poweredMaximum current consumption:       mA |
| .. | Power supply minimum voltage |       VDC |
| **.** | **Deficiencies and Additional Features** |
| .. | Identify any deficiencies where the proposed pressure transmitters do not meet the specifications or the intent of the specifications. Do not include any item clearly identified elsewhere on Form P. |       |
| .. | Identify any additional features proposed that:* significantly exceed the specified requirements,
* would be of benefit to the City of Winnipeg; and
* are included in the price in Form B.

Do not include any item identified elsewhere on Form P. |       |
| **.** | **Pressure Transmitter, Type 1, Gauge** |
| .. | Complete model number of the pressure transmitter proposed. | Transmitter:       Manifold:       Other:        |
| .. | Confirm the following specified features are provided by the proposed pressure transmitter: | [ ]  Local display[ ]  Calibration certificate[ ]  PROFIBUS PA communication |
| .. | Approvals | Only indicate approvals applicable to the products proposed:[ ]  CSA[ ]  UL – Canadian (cUL)[ ]  FM – Canadian (cFM)[ ]  Other Canadian Recognized Approval:      |
| .. | Hazardous Location Approval | [ ]  Unclassified[ ]  CSA Intrinsically Safe (Class I, Zone 1)[ ]  CSA Explosion Proof (Class I, Zone 1)[ ]  Other:       |
| .. | Range limits of the proposed pressure transmitter. | URL:       kPaLRL:       kPa |
| .. | Reference accuracy of the proposed pressure transmitter, at the indicated user span. |       % of user span setting (0 – 689.5 kPag)Where (URL / user span) =       |
| .. | Stability of the proposed pressure transmitter. |       % of URL over five-years |
| .. | Identify secondary seal provided. | [ ]  External secondary process seal provided.[ ]  Internal secondary process seal provided to ANSI/ISA 12.27.01‑2011 compliance:[ ]  Certified by CSA[ ]  Certified by other 3rd party approval agency.      [ ]  Certified by manufacturer |
| **.** | **Pressure Transmitter, Type 2, Differential** |
| .. | Complete model number of the pressure transmitter proposed. | Transmitter:       Manifold:       Other:        |
| .. | Confirm the following specified features are provided by the proposed pressure transmitter: | [ ]  Local display[ ]  Calibration certificate[ ]  PROFIBUS PA communication |
| .. | Approvals | Only indicate approvals applicable to all products proposed:[ ]  CSA[ ]  UL – Canadian (cUL)[ ]  FM – Canadian (cFM)[ ]  Other Canadian Recognized Approval:      |
| .. | Hazardous Location Approval | [ ]  Unclassified[ ]  CSA Intrinsically Safe (Class I, Zone 1)[ ]  CSA Intrinsically Safe (Class I, Zone 2)[ ]  CSA Explosion Proof (Class I, Zone 1)[ ]  Class I, Div/Zone 2. Method of protection:       |
| .. | Range limits of the proposed pressure transmitter. | URL:       kPaLRL:       kPa  (If capable, indicate maximum negative pressure) |
| .. | Reference accuracy of the proposed pressure transmitter, at the indicated user span. |       % of user span setting (-2.0 – 2.0 kPa)Where (URL / user span) =       |
| .. | Stability of the proposed pressure transmitter. |       % of URL over five-years |
| .. | Identify secondary seal provided. | [ ]  External secondary process seal provided.[ ]  Internal secondary process seal provided to ANSI/ISA 12.27.01‑2011 compliance:[ ]  Certified by CSA[ ]  Certified by other 3rd party approval agency.      [ ]  Certified by manufacturer |
| **.** | **Pressure Transmitter, Type 3, Flow** |
| .. | Complete model number of the pressure transmitter proposed. | Transmitter:       Manifold:       Other:        |
| .. | Confirm the following specified features are provided by the proposed pressure transmitter: | [ ]  Local display[ ]  Local pushbuttons[ ]  Calibration certificate |
| .. | Approvals | Only indicate approvals applicable to the products proposed:[ ]  CSA[ ]  UL – Canadian (cUL)[ ]  FM – Canadian (cFM)[ ]  Other Canadian Recognized Approval:      |
| .. | Hazardous Location Approval | [ ]  Unclassified[ ]  CSA Intrinsically Safe (Class I, Zone 1)[ ]  CSA Intrinsically Safe (Class I, Zone 2)[ ]  CSA Explosion Proof (Class I, Zone 1)[ ]  Class I, Div/Zone 2. Method of protection:       |
| .. | Range limits of the proposed pressure transmitter. | URL:       kPaLRL:       kPa |
| .. | Reference accuracy of the proposed pressure transmitter, at the indicated user span. |       % of user span setting (0 – 2.0 kPa)Where (URL / user span) =       |
| .. | Stability of the proposed pressure transmitter. |       % of URL over five-years |
| .. | Identify secondary seal provided. | [ ]  External secondary process seal provided.[ ]  Internal secondary process seal provided to ANSI/ISA 12.27.01‑2011 compliance:[ ]  Certified by CSA[ ]  Certified by other 3rd party approval agency.      [ ]  Certified by manufacturer |
| .. | Output Signal | [ ]  PROFIBUS PA (Preferred)[ ]  HART[ ]  Other        |
| **.** | **Pressure Transmitter, Type 4, Level** |
| .. | Complete model number of the pressure transmitter proposed. | Transmitter:       Diaphragm Seal:       Other:        |
| .. | Confirm the following specified features are provided by the proposed pressure transmitter: | [ ]  75 mm diaphragm seal[ ]  Local display[ ]  Calibration certificate[ ]  PROFIBUS PA communication |
| .. | Approvals | Only indicate approvals applicable to the products proposed:[ ]  CSA[ ]  UL – Canadian (cUL)[ ]  FM – Canadian (cFM)[ ]  Other Canadian Recognized Approval:      |
| .. | Hazardous Location Approval | [ ]  Unclassified[ ]  CSA Intrinsically Safe (Class I, Zone 1)[ ]  CSA Intrinsically Safe (Class I, Zone 2)[ ]  CSA Explosion Proof (Class I, Zone 1)[ ]  Class I, Div/Zone 2. Method of protection:       |
| .. | Range limits of the proposed pressure transmitter. | URL:       kPaLRL:       kPa |
| .. | Reference accuracy of the proposed pressure transmitter, at the indicated user span. |       % of user span setting (0 – 689.5 kPag)Where (URL / user span) =       |
| .. | Stability of the proposed pressure transmitter. |       % of URL over five-years |
| .11. | Identify secondary seal provided. | [ ]  External secondary process seal provided.[ ]  Internal secondary process seal provided to ANSI/ISA 12.27.01‑2011 compliance:[ ]  Certified by CSA[ ]  Certified by other 3rd party approval agency.      [ ]  Certified by manufacturer |
| **.** | **Temperature Transmitters (Section A)** |
| **.** | **General** |
| .. | Years of experience in the design and manufacture of temperature transmitters. | [ ]  <5 years[ ]  5 to 9 years[ ]  10 to 14 years[ ]  15 to 19 years[ ]  20 to 24 years[ ]  >25 years |
| **.** | **Product Lifecycle Guarantee** |  |
| .. | Active sale and production guarantee  | [ ]  No plans to remove any of the proposed products from active sale and/or production are in place.[ ]  There are plans to remove the product for active sale and/or production, but plans call for: [ ]  5 or more years of active production.[ ]  3 or more years of active production.[ ]  Less than 3 years of active production and sale.Additional Details:       |
| .. | Product support guarantee | [ ]  The product is guaranteed to be operable, maintainable, and fully supported by the manufacturer, including availability of spare parts for the following duration after any of the proposed products are removed from active sale:[ ]  5 or more years. Years guaranteed:      [ ]  <5 years (Not acceptable)Additional Details:       |
| **.** | **Temperature Transmitter, Type 1, Process** |
| .. | Complete model number of the temperature transmitter proposed. | Transmitter:       Sensor:       Thermowell:       Other:        |
| .. | Documentation | [ ]  Product datasheets included with proposal[ ]  Product O&M manuals included with proposal |
| .. | Approvals | Only indicate approvals applicable to the products proposed:[ ]  CSA[ ]  UL – Canadian (cUL)[ ]  FM – Canadian (cFM)[ ]  Other Canadian Recognized Approval:      |
| .. | Hazardous Location Approval | [ ]  Unclassified[ ]  CSA Intrinsically Safe (Class I, Zone 1)[ ]  CSA Intrinsically Safe (Class I, Zone 2)[ ]  CSA Explosion Proof (Class I, Zone 1)[ ]  Class I, Div/Zone 2. Method of protection:       |
| .. | Sensor compatibility of the transmitter  | [ ]  RTD Pt100 (Mandatory)[ ]  RTD Pt1000 (Desired) |
| .. | RTD Sensor Tolerance | [ ]  IEC 60751 Class B ±(0.3 + 0.005 |t|) (Specified)[ ]  IEC 60751 Class A ±(0.15 + 0.002 |t|)[ ]  ASTM E1137 Grade B ±(0.25 + 0.0042 |t|)[ ]  ASTM E1137 Grade A ±(0.13 + 0.0017 |t|)[ ]  Other       Where |t| is the absolute value of temperature in °C |
| .. | Enclosure Rating | Check all that apply:[ ]  Unknown[ ]  NEMA 4[ ]  NEMA 4X (Specified)[ ]  IP67 (Specified)[ ]  NEMA 6 (Desired feature)[ ]  IP68 (Desired feature)[ ]  Other:       |
| .. | Display provided. (Note that a display is not a mandatory requirement.) | [ ]  Display not provided and is not available.[ ]  Display provided and included in the Form B price.[ ]  Display not provided but is available on the proposed transmitter model as an option.[ ]  Display not provided but is available on an alternate temperature transmitter model. |
| .. | Display features (Where provided or optional) | [ ]  Display not available[ ]  Display provided (not required)[ ]  Indicates temperature units.[ ]  Backlit[ ]  Display is rotatable in the field.[ ]  Diagnostic / fault indicator[ ]  Other features (Indicate below):       |
| .. | Galvanic Input / Output Isolation | [ ]  Not provided (Does not meet specification)[ ]  Unknown[ ]  As indicated below:      V ac |
| .. | Measurement range of the proposed temperature transmitter. |       to       °C |
| .. | Digital accuracy of the proposed temperature transmitter. | +/-       °C |
| .. | Stability of the proposed temperature transmitter. |       °C/year or       % span/year, whichever is greater |
| .. | Output Signal | [ ]  PROFIBUS PA (Mandatory)[ ]  HART[ ]  Other        |
| .. | Indicate the compatible PROFIBUS PA Profile version(s) of the proposed temperature transmitters. | [ ]  PROFIBUS Profile Version 3.02[ ]  PROFIBUS Profile Version 3.01[ ]  PROFIBUS Profile Version 3.00[ ]  PROFIBUS Profile Version 2.x[ ]  Other:       |
| .. | Indicate the available device parameter file formats for integration of the proposed temperature transmitters on a PROFIBUS network. | [ ]  GSD (General Station Data) file certified by Profibus International[ ]  EDDL (Electronic Device Description Language)[ ]  FDT/DTM (Field Device Tool / Device Type Manager) |
| .. | Indicate the PROFIBUS output data update rate. | [ ]  Unknown[ ]  As per below:      ms |
| .. | Power supply | [ ]  Power supply independent of communication bus (Does not meet specifications)[ ]  PROFIBUS PA bus poweredMaximum current consumption:       mA |
| .. | Power supply minimum voltage |       VDC |
| .. | Indicate the functional features of the proposed temperature transmitters. | [ ]  Configuration security protection via jumper and/or software password.[ ]  Simulation capability to override output for testing. |
| .. | Identify any deficiencies where the proposed temperature transmitters do not meet the specifications or the intent of the specifications. Do not include any item clearly identified elsewhere on Form P. |       |
| .. | Identify any additional features proposed that:* significantly exceed the specified requirements,
* would be of benefit to the City of Winnipeg; and
* are included in the price in Form B.

Do not include any item identified elsewhere on Form P. |       |
| **.** | **Temperature Transmitter, Type 2, HVAC Duct** |
| .. | Complete model number of the temperature transmitter proposed. | Transmitter:       Sensor:       Other:        |
| .. | Documentation | [ ]  Product datasheets included with proposal[ ]  Product O&M manuals included with proposal |
| .. | Approvals | Only indicate approvals applicable to the products proposed:[ ]  CSA[ ]  UL – Canadian (cUL)[ ]  FM – Canadian (cFM)[ ]  Other Canadian Recognized Approval:      |
| .. | Describe the optional hazardous certifications available within the proposed model series. | [ ]  No hazardous certifications available[ ]  CSA Intrinsically Safe (Class I, Zone 1)[ ]  CSA Intrinsically Safe (Class I, Zone 2)[ ]  CSA Explosion Proof (Class I, Zone 1)[ ]  Class I, Div/Zone 2. Method of protection:      Other details:        |
| .. | RTD Sensor Tolerance | [ ]  IEC 60751 Class B ±(0.3 + 0.005 |t|) (Specified)[ ]  IEC 60751 Class A ±(0.15 + 0.002 |t|)[ ]  ASTM E1137 Grade B ±(0.25 + 0.0042 |t|)[ ]  ASTM E1137 Grade A ±(0.13 + 0.0017 |t|)[ ]  Other       Where |t| is the absolute value of temperature in °C |
| .. | Enclosure Rating | Check all that apply:[ ]  Unknown[ ]  NEMA 4[ ]  NEMA 4X (Specified)[ ]  IP67 (Specified)[ ]  NEMA 6 (Desired feature)[ ]  IP68 (Desired feature)[ ]  Other:       |
| .. | Galvanic Input / Output Isolation | [ ]  Not provided (Does not meet specification)[ ]  Unknown[ ]  As indicated below:      V ac |
| .. | Measurement range of the proposed temperature transmitter. |       to       °C |
| .. | Digital accuracy of the proposed temperature transmitter. | +/-       °C |
| .. | Stability of the proposed temperature transmitter. |       °C/year or       % span/year, whichever is greater |
| .. | Output Signal | [ ]  PROFIBUS PA[ ]  HART (Specified)[ ]  4-20 mA[ ]  Other        |
| .. | Indicate the compatible HART revision(s) of the proposed temperature transmitters. | [ ]  HART Revision 7[ ]  HART Revision 6[ ]  HART Revision 5[ ]  Other:       |
| .. | Indicate the functional features of the proposed temperature transmitters. | [ ]  Configuration security protection via jumper and/or software password.[ ]  Simulation capability to override output for testing. |
| .. | Identify any deficiencies where the proposed temperature transmitters do not meet the specifications or the intent of the specifications. Do not include any item clearly identified elsewhere on Form P. |       |
| .. | Identify any additional features proposed that:* significantly exceed the specified requirements,
* would be of benefit to the City of Winnipeg; and
* are included in the price in Form B.

Do not include any item identified elsewhere on Form P. |       |
| **.** | **Temperature Transmitter, Type 3, HVAC Wall-Mount** |
| .. | Complete model number of the temperature transmitter proposed. | Transmitter:       Sensor:       Other:        |
| .. | Documentation | [ ]  Product datasheets included with proposal[ ]  Product O&M manuals included with proposal |
| .. | Approvals | Only indicate approvals applicable to the products proposed:[ ]  CSA[ ]  UL – Canadian (cUL)[ ]  FM – Canadian (cFM)[ ]  Other Canadian Recognized Approval:      |
| .. | Describe the optional hazardous certifications available within the proposed model series. | [ ]  No hazardous certifications available[ ]  CSA Intrinsically Safe (Class I, Zone 1)[ ]  CSA Intrinsically Safe (Class I, Zone 2)[ ]  CSA Explosion Proof (Class I, Zone 1)[ ]  Class I, Div/Zone 2. Method of protection:      Other details:        |
| .. | RTD Sensor Tolerance | [ ]  IEC 60751 Class B ±(0.3 + 0.005 |t|) (Specified)[ ]  IEC 60751 Class A ±(0.15 + 0.002 |t|)[ ]  ASTM E1137 Grade B ±(0.25 + 0.0042 |t|)[ ]  ASTM E1137 Grade A ±(0.13 + 0.0017 |t|)[ ]  Other       Where |t| is the absolute value of temperature in °C |
| .. | Enclosure Rating | Check all that apply:[ ]  Unknown[ ]  NEMA 4[ ]  NEMA 4X (Specified)[ ]  IP67 (Specified)[ ]  NEMA 6 (Desired feature)[ ]  IP68 (Desired feature)[ ]  Other:       |
| .. | Galvanic Input / Output Isolation | [ ]  Not provided (Does not meet specification)[ ]  Unknown[ ]  As indicated below:      V ac |
| .. | Measurement range of the proposed temperature transmitter. |       to       °C |
| .. | Digital accuracy of the proposed temperature transmitter. | +/-       °C |
| .. | Stability of the proposed temperature transmitter. |       °C/year or       % span/year, whichever is greater |
| .. | Output Signal | [ ]  PROFIBUS PA[ ]  HART (Specified)[ ]  4-20 mA[ ]  Other        |
| .. | Indicate the compatible HART revision(s) of the proposed temperature transmitters. | [ ]  HART Revision 7[ ]  HART Revision 6[ ]  HART Revision 5[ ]  Other:       |
| .. | Indicate the functional features of the proposed temperature transmitters. | [ ]  Configuration security protection via jumper and/or software password.[ ]  Simulation capability to override output for testing. |
| .. | Describe how the specified wall mounting is provided. |       |
| .. | Describe how the RTD sensor is protected in a wall mounted installation. | [ ]  The probe length is kept short to minimize potential for damage. Probe length is:      mm[ ]  The probe diameter provides sufficient damage protection. Probe diameter is:       mm[ ]  A protective sheath is provided for the sensor. Describe below:       [ ]  Other. Describe below:        |
| .. | Identify any deficiencies where the proposed temperature transmitters do not meet the specifications or the intent of the specifications. Do not include any item clearly identified elsewhere on Form P. |       |
| .. | Identify any additional features proposed that:* significantly exceed the specified requirements,
* would be of benefit to the City of Winnipeg; and
* are included in the price in Form B.

Do not include any item identified elsewhere on Form P. |       |
| **.** | **Warranty (Section A)** |
| **.** | **General** |  |
| .. | Warranty Length of Electromagnetic Flowmeters | [ ]  One-year (Beginning on the date of successful commissioning or 6 months after delivery, whichever comes sooner) – Minimum Specified[ ]  Two years or longer from the date of delivery. Indicate length below:       years[ ]  Two years or longer (Beginning on the date of successful commissioning or 6 months after delivery, whichever comes sooner). Indicate length below:       years |
| .. | Warranty Length of Pressure Transmitters | [ ]  One-year (Beginning on the date of successful commissioning or 6 months after delivery, whichever comes sooner) – Minimum Specified[ ]  Two years or longer from the date of delivery. Indicate length below:       years[ ]  Two years or longer (Beginning on the date of successful commissioning or 6 months after delivery, whichever comes sooner). Indicate length below:       years |
| .. | Warranty Length of Temperature Transmitters | [ ]  One-year (Beginning on the date of successful commissioning or 6 months after delivery, whichever comes sooner) – Minimum Specified[ ]  Two years or longer from the date of delivery. Indicate length below:       years[ ]  Two years or longer (Beginning on the date of successful commissioning or 6 months after delivery, whichever comes sooner). Indicate length below:       years |
| **.** | **Delivery (Section A)** |
| **.** | **Electromagnetic Flowmeters** |
| .. | Indicate the delivery timeframe for proposed electromagnetic flowmeters from the date of order, for an order of up to ten (10) flowmeters within the corresponding size range. Allow 14 Calendar Days for shop drawing (submittal) reviews. | Diameter less than 300mm (12”): Maximum:       Calendar Days (max 42)Diameter >= 300mm (12”) and < 600mm (“24”): Maximum:       Calendar Days (max 63)Diameter >= 600mm (24”): Maximum:       Calendar Days (max 84) |
| **.** | **Pressure Transmitters** |
| .. | Indicate the delivery timeframe for the proposed pressure transmitter from the date of order, for an order of up to ten (10) pressure transmitters. Allow 14 Calendar Days for shop drawing (submittal) reviews. | Maximum:       Calendar Days (max 42) |
| **.** | **Temperature Transmitters** |
| .. | Indicate the delivery timeframe for the proposed temperature transmitters, from the date of order, for an order of up to ten (10) pressure transmitters.. Allow 14 Calendar Days for shop drawing (submittal) reviews. | Maximum:       Calendar Days (max 42) |
| **.** | **Published Canadian Price List (Section B)** |
| **.** | **General** |
| .. | As requested in B13, is a published price list provided for all ultrasonic level transmitter components? | [ ]  Yes, a published price list is provided:[ ]  The price list is in Canadian Dollars.[ ]  The price list is in US Dollars.[ ]  The price list is in Euros.[ ]  The price list is applicable for the following regions:             |
| .. | Is the price list comprehensive of the manufacturer’s entire ultrasonic level transmitter offering, including all replacement parts? | [ ]  Yes[ ]  No. Provide details below:        |
| .. | Is the price list consistent with the prices and discounts indicated in Form B? | [ ]  Yes[ ]  No. Provide details below:        |
| **.** | **Ultrasonic Level Transmitters (Section B)** |
| **.** | **General** |
| .. | Years of experience in the design and manufacture of ultrasonic level transmitters. | [ ]  <5 years[ ]  5 to 9 years[ ]  10 to 14 years[ ]  15 to 19 years[ ]  20 to 24 years[ ]  >25 years |
| **.** | **Product Lifecycle Guarantee** |
| .. | Active sale and production guarantee  | [ ]  No plans to remove any of the proposed products from active sale and/or production are in place.[ ]  There are plans to remove the product for active sale and/or production, but plans call for: [ ]  5 or more years of active production.[ ]  3 or more years of active production.[ ]  Less than 3 years of active production and sale.Additional Details:       |
| .. | Product support guarantee | [ ]  The products proposed are guaranteed to be operable, maintainable, and fully supported by the manufacturer, including availability of spare parts for the following duration after any of the proposed products are removed from active sale:[ ]  5 or more years. Years guaranteed:      [ ]  <5 years (Not acceptable)Additional Details:       |
| **.** | **Ultrasonic Level Transmitter - Type 1, Integrated Unit** |
| .. | Complete model number of the ultrasonic level transmitter proposed, including all accessories included in the Form B price. | Transmitter:       Sensor:       Mounting Flange:      Other:       Other:        |
| .. | Documentation | [ ]  Product datasheets included with proposal[ ]  Product O&M manuals included with proposal |
| .. | Approvals | Only indicate approvals applicable to the products proposed:[ ]  CSA[ ]  UL – Canadian (cUL)[ ]  FM – Canadian (cFM)[ ]  Other Canadian Approval (indicate below):      |
| .. | Indicate the hazardous location approvals provided | [ ]  Unclassified Only[ ]  CSA Class I, Div 2 / Zone 2[ ]  CSA Class I, Div 1 / Zone 1 – Explosion-proof[ ]  CSA Class I, Div 1 / Zone 1 – Intrinsically-Safe (specified)[ ]  Other:        |
| .. | Indicate the optional hazardous location approvals of the proposed transmitter / controller. The optional approvals are not required to be included in the Form B price | [ ]  Unclassified Only[ ]  CSA Class I, Div 2 / Zone 2 (non-incendive)[ ]  CSA Class I, Div 1 / Zone 1 – Explosion-proof[ ]  CSA Class I, Div 1 / Zone 1 – Intrinsically-Safe (specified)[ ]  Other:        |
| .. | Indicate the sensor / transmitter configuration. | [ ]  The sensor and transmitter are integrated into a single unit. (specified)[ ]  The transmitter is separate from the sensor.[ ]  Other:        |
| .. | Maximum operating range of the proposed transmitter |       m |
| .. | Blanking distance / minimum range of the proposed transmitter |       m |
| .. | Beam angle of the proposed ultrasonic level transmitter. |       degrees |
| .. | Indicate the additional available optional ranges, within the same model series, that address the indicated applications. Do not include these additional sensors in the Form B price. Note that the beam angle is for the entire beam width, not the angle from the center of the beam. | **Desired Range (m)** | **Desired Beam Angle** | **Model** | **Actual Range (m)** | **Actual Beam Angle** |
| >=6 and < 10 | <=12° |       |       |      ° |
| >=10 | <=12° |       |       |      ° |
| >=15 | <=11° |       |       |      ° |
| .. | Operating Frequency | [ ]  Fixed      kHz[ ]  Configurable range      kHz to       kHz |
| .. | Accuracy of the proposed ultrasonic level transmitter. | [ ]  Information not available[ ]  The greater of the below:      % maximum range or      mm |
| .. | Resolution of the proposed ultrasonic level transmitter. | [ ]  Information not available[ ]  The greater of the below:      % maximum range or      mm, whichever is greater |
| .. | Is integral temperature compensation provided? | [ ]  Yes[ ]  No |
| .. | Temperature operating limits. |       to       °C |
| .. | Volume calculation capabilities | [ ]  Volume calculation is not supported.[ ]  Basic circular or rectangular tank volume calculation[ ]  Calculation via selection of multiple tank shapes[ ]  Custom tank characterization - Ability to define custom linearization curves for abnormal vessel shapes (level – volume) |
| .. | Simulation Capabilities | [ ]  No simulation capability is provided[ ]  Simulation capability is provided to override the output for testing. |
| .. | Echo Processing Capabilities | [ ]  Manually configurable interference echo suppression.[ ]  Automatic false echo suppression. |
| .. | Diagnostic Capabilities | [ ]  Echo Profile Analysis provided via:[ ]  Local Display[ ]  HART Interface[ ]  PROFIBUS Interface[ ]  Proprietary Software |
| .. | Power supply | [ ]  Power supply independent of communication bus (Does not meet specifications)[ ]  PROFIBUS PA bus poweredMaximum current consumption:       mA |
| .. | Power supply minimum voltage |       VDC |
| .. | Indicate the types of signal outputs included with the proposed ultrasonic level transmitter. | [ ]  PROFIBUS PA (specified)[ ]  PROFIBUS DP |
| .. | Indicate the compatible PROFIBUS DP/PA Profile version(s) of the proposed ultrasonic level transmitter. | [ ]  PROFIBUS Profile Version 3.02[ ]  PROFIBUS Profile Version 3.01[ ]  PROFIBUS Profile Version 3.00[ ]  PROFIBUS Profile Version 2.x[ ]  Other:       |
| .. | Indicate the available device parameter file formats for integration of the proposed ultrasonic level transmitter on a PROFIBUS network. | [ ]  GSD (General Station Data) file certified by Profibus International[ ]  EDDL (Electronic Device Description Language)[ ]  FDT/DTM (Field Device Tool / Device Type Manager)[ ]  Other:       |
| .. | Display | [ ]  Display not provided (Does not meet specification)[ ]  Display Provided[ ]  Indicates level unit of measurement.[ ]  Indicates sensor temperature.[ ]  Backlit[ ]  Display is rotatable in the field.[ ]  Diagnostic / fault / loss of echo indicator[ ]  Other features (Indicate below):       |
| .. | How is the transmitter configured? | Indicate all proposed methods:[ ]  Via local keypad[ ]  Via HART communicator[ ]  Via PROFIBUS Interface[ ]  Via proprietary handheld programmer / configuration tool.[ ]  Via proprietary PC configuration tool (supplied at no additional charge). |
| .. | Sensor Mounting | [ ]  75mm (3”) ASME Flange – Material as indicated below:[ ]  Stainless Steel[ ]  Carbon Steel[ ]  Other:      [ ]  Other:       |
| .. | Identify any deficiencies where the proposed ultrasonic level transmitter does not meet the specifications or the intent of the specifications. Do not include any item clearly identified elsewhere on Form P. |       |
| .. | Identify any additional features proposed that:* significantly exceed the specified requirements,
* would be of benefit to the City of Winnipeg; and
* are included in the price in Form B.

Do not include any item identified elsewhere on Form P. |       |
| **.** | **Ultrasonic Level Transmitter - Type 2, Remote Sensor** |
| .. | Complete model number of the ultrasonic level transmitter proposed, including all accessories included in the Form B price | Transmitter:       Sensor:       Mounting Flange:      Other:       Other:       Other:        |
| .. | Documentation | [ ]  Product datasheets included with proposal[ ]  Product O&M manuals included with proposal |
| .. | Indicate the sensor / transmitter configuration. | [ ]  The transmitter is separate from the sensor. The transmitter is integrated with the controller. (specified)[ ]  The sensor and transmitter are integrated into a single unit.[ ]  The transmitter is integrated into the sensor. The controller (relays) is a separate device.[ ]  Other:        |
| .. | Approvals - Transmitter | Only indicate approvals applicable to the products proposed:[ ]  CSA (Specified)[ ]  UL – Canadian (cUL)[ ]  FM – Canadian (cFM)[ ]  Other Canadian Approval (indicate below):      |
| .. | Indicate the hazardous location approvals of the proposed sensor / transducer. | [ ]  Unclassified (Does not meet specifications)[ ]  CSA Class I, Div 2 / Zone 2[ ]  CSA Class I, Div 1 / Zone 1 – Explosion-proof[ ]  CSA Class I, Div 1 / Zone 1 – Intrinsically-Safe[ ]  Other:        |
| .. | Indicate the optional hazardous location approvals of the proposed transmitter / controller. The optional approvals are not required to be included in the Form B price. | [ ]  Unclassified[ ]  CSA Class I, Div 2 / Zone 2[ ]  CSA Class I, Div 1 / Zone 1 – Explosion-proof[ ]  CSA Class I, Div 1 / Zone 1 – Intrinsically-Safe[ ]  Other:        |
| .. | Maximum operating range of the proposed sensor |       m |
| .. | Blanking distance / minimum range of the proposed sensor |       m |
| .. | Beam angle of the proposed ultrasonic level sensor. |       degrees |
| .. | Indicate the additional available optional CSA approved sensors that address the indicated applications. Do not include these additional sensors in the Form B price. Note that the beam angle is for the entire beam width, not the angle from the center of the beam. | **Desired Range (m)** | **Desired Beam Angle** | **Model** | **Actual Range (m)** | **Actual Beam Angle** |
| >=3 & < 6m | <=12° |       |       |      ° |
| >=10 | <=12° |       |       |      ° |
| >=15 | <=11° |       |       |      ° |
| >=30 | <=6° |       |       |      ° |
| .. | Operating Frequency | [ ]  Fixed      kHz[ ]  Configurable range      kHz to       kHz |
| .. | Accuracy of the proposed ultrasonic level transmitter / sensor combination. | [ ]  Information not available[ ]  The greater of the below:      % maximum range or      mm, whichever is greater |
| .. | Resolution of the proposed ultrasonic level transmitter / sensor combination. | [ ]  Information not available[ ]  The greater of the below:      % maximum range or      mm, whichever is greater |
| .. | Temperature compensation provided | [ ]  Not provided[ ]  Integral to sensor / transducer (specified)[ ]  An external temperature sensor is provided[ ]  Other:        |
| .. | Is an optional external compensation provided whereby the transmitter will average the temperature in the sensor / transducer and a remote temperature sensor? | [ ]  No available.[ ]  Available as an option. |
| .. | Temperature operating limits – Transmitter / Controller |       to       °C |
| .. | Temperature operating limits – Sensor / Transducer |       to       °C |
| .. | Volume calculation capabilities | [ ]  Volume calculation is not supported.[ ]  Basic circular or rectangular tank volume calculation[ ]  Calculation via selection of multiple pre-programmed tank shapes[ ]  Custom tank characterization - Ability to define custom linearization curves for abnormal vessel shapes (level – volume) |
| .. | Level Alarm Capabilities | [ ]  No Level Alarms Provided[ ]  Hi Hi[ ]  Hi[ ]  Lo[ ]  Lo Lo |
| .. | Pump Control Capabilities | [ ]  No pump control capability provided[ ]  Pump control capability provided for:[ ]  Two pumps[ ]  Three pumps[ ]  Four pumps[ ]  Pump Alternation Capability |
| .. | Simulation Capabilities | [ ]  No simulation capability is provided[ ]  Simulation capability is provided to override the output for testing. |
| .. | Echo Processing Capabilities | [ ]  Manually configurable interference echo suppression.[ ]  Automatic false echo suppression.[ ]  Means to connect multiple ultrasonic level transmitters to cancel echo interference if mounted in close proximity. |
| .. | Diagnostic Capabilities | [ ]  Echo Profile Analysis provided via:[ ]  Local Display[ ]  HART Interface[ ]  PROFIBUS Interface[ ]  Proprietary Software |
| .. | Power Supply | [ ]  120 VAC (preferred)[ ]  24 VDC |
| .. | Indicate the types of signal outputs included with the proposed ultrasonic level transmitter. | [ ]  PROFIBUS DP[ ]  PROFIBUS PA |
| .. | Indicate the compatible PROFIBUS DP/PA Profile version(s) of the proposed ultrasonic level transmitter. | [ ]  PROFIBUS Profile Version 3.02[ ]  PROFIBUS Profile Version 3.01[ ]  PROFIBUS Profile Version 3.00[ ]  PROFIBUS Profile Version 2.x[ ]  Other:       |
| .. | Indicate the available device parameter file formats for integration of the proposed ultrasonic level transmitter on a PROFIBUS network. | [ ]  GSD (General Station Data) file certified by Profibus International[ ]  EDDL (Electronic Device Description Language)[ ]  FDT/DTM (Field Device Tool / Device Type Manager) |
| .. | Indicate the output relay configuration of the proposed ultrasonic level transmitter. | [ ]  The transmitter is not equipped with relay outputs. [ ]  The transmitter is equipped with relay outputs – Indicate quantity below:       Fixed Function SPST (Form A) relays      Fixed Function SPDT (Form C) relays      Configurable Function SPST (Form A) relays      Configurable Function SPDT (Form C) relays |
| .. | Indicate the output relay rating of the proposed ultrasonic level transmitter at 120 VAC. | [ ]  The transmitter is not equipped with relay outputs. [ ]  The output relays are not rated for 120 VAC[ ]  < 1 A[ ]  >= 1 A and < 2 A [ ]  >= 2 A and < 3.5 A[ ]  >= 3.5 A and < 5 A[ ]  >= 5 A |
| .. | Display | [ ]  Display not provided (Does not meet specification)[ ]  Display Provided[ ]  Indicates level unit of measurement.[ ]  Indicates sensor temperature.[ ]  Backlit[ ]  Diagnostic / fault / loss of echo indicator[ ]  Other features (Indicate below):       |
| .. | How is the transmitter configured? | Indicate all proposed methods:[ ]  Via local keypad[ ]  Via HART communicator[ ]  Via PROFIBUS Interface[ ]  Via proprietary handheld programmer / configuration tool.[ ]  Via proprietary PC configuration tool (supplied at no additional charge). |
| .. | Sensor cable length |       m |
| .. | Sensor Mounting | [ ]  100mm (4”) ASME Flange – Material as indicated below:[ ]  Stainless Steel[ ]  Carbon Steel[ ]  Other:      [ ]  Other:       |
| .. | Identify any deficiencies where the proposed ultrasonic level transmitter does not meet the specifications or the intent of the specifications. Do not include any item clearly identified elsewhere on Form P. |       |
| .. | Identify any additional features proposed that:* significantly exceed the specified requirements,
* would be of benefit to the City of Winnipeg; and
* are included in the price in Form B.

Do not include any item identified elsewhere on Form P. |       |
| **.** | **Warranty (Section B)** |
| **.** | **General** |  |
| .. | Warranty Length of Ultrasonic Level Transmitters | [ ]  One-year (Beginning on the date of successful commissioning or 6 months after delivery, whichever comes sooner) – Minimum Specified[ ]  Two years or longer from the date of delivery. Indicate length below:       years[ ]  Two years or longer (Beginning on the date of successful commissioning or 6 months after delivery, whichever comes sooner). Indicate length below:       years |
| **.** | **Delivery (Section B)** |
| **.** | **Ultrasonic Level Transmitters** |
| .. | Indicate the delivery timeframe for the proposed ultrasonic level transmitters from the date of order, for an order of up to ten (10) ultrasonic level transmitters. Allow 14 Calendar Days for shop drawing (submittal) reviews. | Maximum:       Calendar Days (max 42) |
| **.** | **Service and Support - General (Section A and Section B)** |
| **.** | **General** |
| .. | Describe bidder’s relationship with the manufacturer: | [ ]  Bidder is the manufacturer[ ]  Bidder is a distributor[ ]  Other:        |
| .. | Proposed bidder account manager: | Name:       Responsibilities:       Relevant Technical Experience:       yearsRelevant Account Management Experience:       yearsCertifications:        |
| .. | Bidder account manager’s hours of business |       to      Time Zone:       |
| **.** | **Local Support** |
| .. | Identify the company which will be providing local support for the proposed products, and where they are located. | Company:       Location:        |
| .. | Local support hours of business |       to      Time Zone:       |
| **.** | **Manufacturer Support Services**  |  |
| .. | Is manufacturer telephone technical support available? | [ ]  Yes – complete technical support[ ]  Limited technical support (complete details below)[ ]  Not available.Details:        |
| .. | Availability of telephone technical support? | [ ]  24/7[ ]  8am – 4:30pm CST[ ]  Other (complete below)Other:        |
| **.** | **Service and Support (Section A)** |
| **.** | **Local Support** |
| .. | Local support personnel – Electromagnetic Flow | Name:       Responsibilities:       Relevant Experience:       yearsCertifications:       Experience with proposed products:       yearsName:       Responsibilities:       Relevant Experience:       yearsCertifications:       Experience with proposed products:       years |
| .. | Local support personnel – Pressure Transmitters | [ ]  Same as electromagnetic flowmeters[ ]  See below:Name:       Responsibilities:       Relevant Experience:       yearsCertifications:       Experience with proposed products:       yearsName:       Responsibilities:       Relevant Experience:       yearsCertifications:       Experience with proposed products:       years |
| .. | Local support personnel – Temperature Transmitters | [ ]  Same as electromagnetic flowmeters[ ]  See below:Name:       Responsibilities:       Relevant Experience:       yearsCertifications:       Experience with proposed products:       yearsName:       Responsibilities:       Relevant Experience:       yearsCertifications:       Experience with proposed products:       years |
| **.** | **Spare Parts** |
| .. | Identify the closest location where comprehensive spare parts for the Section A instruments are located.  | [ ]  Winnipeg[ ]  Manitoba[ ]  Canada[ ]  United States[ ]  Other (complete below)      The proposed spare parts location is:[ ]  Currently in place.[ ]  Will be in place within 1 year of Contract award. |
| **.** | **Local Training Sessions – Electromagnetic Flowmeters** |
| .. | Who is proposed to perform the training? | Name:        |
| .. | How many years of experience does the proposed trainer have with the manufacturer’s electromagnetic flowmeters? |       years  |
| .. | List up to five customers for whom the proposed trainer has performed comparable training? | 1.       2.       3.       4.       5.        |
| **.** | **Local Training Sessions – Pressure Transmitters** |
| .. | Who is proposed to perform the training? | Name:        |
| .. | How many years of experience does the proposed trainer have with the manufacturer’s pressure transmitters? |       years  |
| .. | List up to five customers for whom the proposed trainer has performed comparable training? | 1.       2.       3.       4.       5.        |
| **.** | **Local Training Sessions – Temperature Transmitters** |
| .. | Who is proposed to perform the training? | Name:        |
| .. | How many years of experience does the proposed trainer have with the manufacturer’s temperature transmitters? |       years  |
| .. | List up to five customers for whom the proposed trainer has performed comparable training? | 1.       2.       3.       4.       5.        |
| **.** | **Service and Support (Section B)** |
| **.** | **Local Support – Ultrasonic Level Transmitters** |
| .. | Local support personnel – Ultrasonic Level Transmitters | Name:       Responsibilities:       Relevant Experience:       yearsCertifications:       Experience with proposed products:       yearsName:       Responsibilities:       Relevant Experience:       yearsCertifications:       Experience with proposed products:       years |
| **.** | **Spare Parts – Ultrasonic Level Transmitters** |
| .. | Identify the closest location where comprehensive spare parts for the Section B ultrasonic level instruments are located.  | [ ]  Winnipeg[ ]  Manitoba[ ]  Canada[ ]  United States[ ]  Other (complete below)      The proposed spare parts location is:[ ]  Currently in place.[ ]  Will be in place within 1 year of Contract award. |
| **.** | **Local Training Sessions – Ultrasonic Level Transmitters** |
| .. | Who is proposed to perform the training? | Name:        |
| .. | How many years of experience does the proposed trainer have with the manufacturer’s ultrasonic level transmitters? |       years  |
| .. | List up to five customers for whom the proposed trainer has performed comparable training? | 1.       2.       3.       4.       5.        |