| Form P: Proposal Information |
| --- |
| Bidder: |       |
| 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** |  |
| **.** | **General** |  |
| .. | As requested in B12, is a standard price list provided? | [ ]  Yes, a price list is provided:[ ]  The price list is a published Canadian price list, applicable to all Canadian sales.[ ]  The price list is for the following region:       |
| .. | Is the price list comprehensive of the manufacturer’s entire fixed gas detection offering, including all replacement parts? | [ ]  Yes[ ]  No. Provide details below:       |
| .. | Is the price list consistent with the prices and discounts indicated on Form B? | [ ]  Yes[ ]  No. Provide details below:       |
| **.** | **CO, H2S and O2 Detectors** |  |
| **.** | **General** |  |
| .. | Manufacturer Name |       |
| .. | Years that the transmitter model has been actively produced and sold. | [ ]  <1 year[ ]  1 to 2 years[ ]  2 to 5 years[ ]  5 to 10 years[ ]  10 to 15 years[ ]  >15 years |
| .. | Documentation | [ ]  Product datasheets included with proposal[ ]  Product O&M manuals included with proposal |
| .. | Enclosure material for the proposed transmitter | [ ]  Copper-free aluminum with epoxy/polyester coating[ ]  Stainless Steel[ ]  Other:       |
| .. | Enclosure materials available as an option | [ ]  Copper-free aluminum with epoxy/polyester coating[ ]  Stainless Steel[ ]  Other:       |
| .. | Sensor capable of field replacement without de-classifying the area? | [ ]  Yes[ ]  No |
| .. | List other gas sensors available that could be applicable in a wastewater treatment facility. | [ ]  Chlorine[ ]  Carbon Dioxide[ ]  Sulfur Dioxide[ ]  Other:       [ ]  Other:       [ ]  Other:       [ ]  Other:        |
| **.** | **Mounting Options** |  |
| .. | Surface Mount Kit | [ ]  Included on Form B price[ ]  Optional[ ]  Not Available |
| .. | Pipe Mount Kit | [ ]  Included on Form B price[ ]  Optional[ ]  Not Available |
| .. | Duct Mount Kit | [ ]  Included on Form B price[ ]  Optional[ ]  Not Available |
| **.** | **Certifications** |  |
| .. | ISA 92.00.01 (3rd Party Certification) | [ ]  Yes[ ]  No |
| .. | Hazardous Certification | [ ]  Unclassified[ ]  Class I, Div/Zone 2[ ]  Class I, Div/Zone 1 |
| .. | SIL Certification | [ ]  None[ ]  SIL 1[ ]  SIL 2Certified By:      Details:       |
| **.** | **Display and Configuration** |  |
| .. | Display type | [ ]  Not provided. (Not Acceptable)[ ]  Provided, details below.[ ]  LED Segment Display[ ]  LCD Display[ ]  Organic LED Display[ ]  Other:       |
| .. | Content on the display | [ ]  Not provided. (Not Acceptable)[ ]  Provided, details below.[ ]  Measured value only[ ]  Measured value with status and calibration messages[ ]  Other:       |
| .. | Status LEDs on the front of the transmitter? | [ ]  Not provided.[ ]  Provided, details below.[ ]  Power LED[ ]  Status LED[ ]  Alarm[ ]  Other:       |
| .. | Interface for calibration in a Hazardous Classified area? | [ ]  Pushbuttons on display[ ]  Magnetic wand on display[ ]  Infrared Remote[ ]  Intrinsically safe HART connection[ ]  Other:        |
| .. | Is an option to locate the sensor remote from the transmitter available? (Not required on Form B price.) | [ ]  No[ ]  Yes, maximum sensor distance from transmitter:[ ]  < 5 m[ ]  5 to 10 m[ ]  > 10 m |
| .. | Is a remote calibration option available? (Not required on Form B price.) | [ ]  No[ ]  Yes, maximum distance from transmitter:[ ]  < 5 m[ ]  5 to 10 m[ ]  > 10 m |
| **.** | **Alarm Relays**Describe the relay configuration, where optional or proposed. |  |
| .. | Relay configuration for the transmitter? | [ ]  Fixed Relays:[ ]  Fault[ ]  Alarm 1 – Configurable Setpoint[ ]  Alarm 2 – Configurable Setpoint[ ]  Alarm 3 – Configurable Setpoint[ ]  Other:      [ ]  Programmable Relays:Qty:       |
| .. | Relay type | [ ]  Form A [ ]  Form B[ ]  Form C (SPDT)[ ]  Form C (DPDT) |
| .. | Maximum current rating of relays at 120 VAC | [ ]  Not rated for 120 VAC[ ]  < 1 A[ ]  1 to 2 A [ ]  2 to 4 A[ ]  ≥ 5 A |
| **.** | **Output Signals** |  |
| .. | Output signals provided with proposed product, as priced on Form B. | [ ]  4 – 20 mA (mandatory)[ ]  HART (mandatory)[ ]  Other:        |
| **.** | **CO Detector** |  |
| .. | Complete model number of the CO Detector and all accessory components included in the proposal and priced on Form B. | **Description** **Model Number**Transmitter       Display, 4-20 mA, HART and relays mandatory.Sensor       Accessories:                                                 |
| .. | CO sensor operating temperature range |       °C to       °C |
| .. | CO sensor operating humidity range |       %RH to       %RH |
| .. | CO sensor measurement range provided | [ ]  0 - 100 ppm[ ]  0 - 500 ppm (specified)[ ]  Other:       |
| .. | CO sensor optional available measurement ranges | [ ]  0 - 100 ppm[ ]  0 - 500 ppm[ ]  Other:       |
| .. | CO Sensor Accuracy | [ ]  Not published (Not acceptable)The greater of:       % of reading;       % of full scale; or       ppm |
| .. | CO Sensor Response Time | [ ]  Not publishedT90:       secondsT63:       secondsT50:       seconds |
| .. | CO sensor has on-board memory containing sensor type, serial number and calibration data? | [ ]  Yes[ ]  No |
| .. | CO sensor has the capability to be calibrated remotely in a shop? | [ ]  Yes[ ]  No |
| .. | CO sensor drift/calibration interval. Provide available specifications. | [ ]  Not publishedTypical Calibration Interval:      monthsZero Drift:      % full scale/month      % full scale/yearSpan Drift:      % full scale /month      % full scale /year |
| .. | CO sensor life expectancy in a typical environment with low normal CO concentrations. | [ ]  Not published[ ]  ≥ 5 years[ ]  3 to 4 years[ ]  1 to 2 years[ ]  < 1 year |
| **.** | **H2S Detector** |  |
| .. | Complete model number of the H2S Detector and all accessory components included in the proposal and priced on Form B. | **Description** **Model Number**Transmitter       Display, 4-20 mA, and HART mandatory.Sensor       Accessories:                                                 |
| .. | H2S sensor operating temperature range |       °C to       °C |
| .. | H2S sensor operating humidity range |       %RH to       %RH |
| .. | H2S sensor measurement range provided | [ ]  0 - 20 ppm[ ]  0 - 50 ppm (specified)[ ]  0 - 100 ppm[ ]  Other:       |
| .. | H2S sensor optional available measurement ranges | [ ]  0 - 20 ppm[ ]  0 - 50 ppm [ ]  0 - 100 ppm[ ]  Other:       |
| .. | H2S Sensor Accuracy | [ ]  Not published (Not acceptable)The greater of:       % of reading;       % of full scale; or       ppm |
| .. | H2S Sensor Response Time | [ ]  Not publishedT90:       secondsT63:       secondsT50:       seconds |
| .. | H2S sensor has on-board memory containing sensor type, serial number and calibration data? | [ ]  Yes[ ]  No |
| .. | H2S sensor has the capability to be calibrated remotely in a shop? | [ ]  Yes[ ]  No |
| .. | H2S sensor drift/calibration interval. Provide available specifications. | [ ]  Not publishedTypical Calibration Interval:      monthsZero Drift:      % full scale/month      % full scale /yearSpan Drift:      % full scale /month      % full scale /year |
| .. | H2S sensor life expectancy in typical environment with low normal H2S concentrations | [ ]  Not published[ ]  ≥ 5 years[ ]  3 to 4 years[ ]  < 2 years[ ]  < 1 year |
| .. | Other H2S sensor technologies available for the proposed transmitter. | [ ]  MOS[ ]  Nano-enhanced MOS[ ]  Other:        |
| **.** | **O2 Sensor** |  |
| .. | Complete model number of the O2 Detector and all accessory components included in the proposal and priced on Form B. | **Description** **Model Number**Transmitter       Display, 4-20 mA, and HART mandatory.Sensor       Accessories:                                                 |
| .. | O2 sensor operating temperature range |       °C to       °C |
| .. | O2 sensor operating humidity range |       %RH to       %RH |
| .. | O2 sensor measurement range provided | [ ]  0 - 25% by volume (specified)[ ]  0 - 100% by volume[ ]  Other:       |
| .. | O2 Sensor Accuracy | [ ]  Not published (Not acceptable)The greater of:       % of reading;       % of full scale; or       ppm |
| .. | O2 Sensor Response Time | [ ]  Not publishedT90:       secondsT63:       secondsT50:       seconds |
| .. | O2 sensor has on-board memory containing sensor type, serial number and calibration data? | [ ]  Yes[ ]  No |
| .. | O2 sensor has the capability to be calibrated remotely in a shop? | [ ]  Yes[ ]  No |
| .. | O2 sensor drift/calibration interval. Provide available specifications. | [ ]  Not publishedTypical Calibration Interval:      monthsZero Drift:      % full scale /month      % full scale /yearSpan Drift:      % full scale /month      % full scale /year |
| .. | O2 sensor life expectancy in a typical environment | [ ]  Not published[ ]  ≥ 5 years[ ]  3 to 4 years[ ]  < 2 years[ ]  < 1 year |
| **.** | **IR Hydrocarbon Detectors** |  |
| **.** | **General** |  |
| .. | Manufacturer Name |       |
| .. | Complete model number of the IR Hydrocarbon Detector and all accessory components included in the proposal and priced on Form B. | **Description** **Model Number**Transmitter       4 – 20 mA and HART mandatory.Accessories:                                                 |
| .. | Years that the transmitter model has been actively produced and sold. | [ ]  <1 year[ ]  1 to 2 years[ ]  2 to 5 years[ ]  5 to 10 years[ ]  10 to 15 years[ ]  >15 years |
| .. | Documentation | [ ]  Product datasheets included with proposal[ ]  Product O&M manuals included with proposal |
| .. | Enclosure material for the proposed transmitter | [ ]  Copper-free aluminum with epoxy/polyester coating[ ]  Stainless Steel[ ]  Other:       |
| .. | Enclosure material available as an option | [ ]  Aluminum[ ]  Stainless Steel[ ]  Other:       |
| **.** | **Mounting Options** |  |
| .. | Surface Mount Kit | [ ]  Included on Form B price[ ]  Optional[ ]  Not Available |
| .. | Pipe Mount Kit | [ ]  Included on Form B price[ ]  Optional[ ]  Not Available |
| .. | Duct Mount Kit | [ ]  Included on Form B price[ ]  Optional[ ]  Not Available |
| **.** | **Certifications** |  |
| .. | CSA 22.2 No. 152 | [ ]  Yes[ ]  No (Not acceptable) |
| .. | Hazardous Certification | [ ]  Unclassified[ ]  Class I, Div/Zone 2[ ]  Class I, Div/Zone 1 |
| .. | SIL Certification | [ ]  None[ ]  SIL 1[ ]  SIL 2Certified By:      Details:       |
| **.** | **Display and Configuration** |  |
| .. | Display type*Note that a display is not mandatory, provided the unit is capable of remote calibration.* | [ ]  Not provided[ ]  Provided, details below:[ ]  LED Segment Display[ ]  LCD Display[ ]  Organic LED Display[ ]  Other:       |
| .. | Content on the display*Note that a display is not mandatory, provided the unit is capable of remote calibration.* | [ ]  Not provided[ ]  Provided, details below:[ ]  Measured value only[ ]  Measured value with status and calibration messages[ ]  Other:       |
| .. | Status LEDs on front of transmitter? | [ ]  Not provided.[ ]  Provided, details below.[ ]  Power LED[ ]  Status LED[ ]  Alarm[ ]  Other:       |
| .. | Interface for local calibration in a Hazardous Classified area? | [ ]  Pushbuttons on display[ ]  Magnetic wand on display[ ]  Infrared Remote[ ]  Intrinsically safe HART connection – remote from sensor[ ]  Other:        |
| .. | Describe interface for remote calibration. | [ ]  Remote transmitter[ ]  Remote display. Transmitter is local to the sensor.[ ]  Intrinsically safe HART connection – remote from sensor[ ]  Other:       Maximum sensor distance from transmitter/remote calibration:      m(5 m is minimum) |
| .. | Describe means to remotely provide calibration gas to sensor. | Describe:        Maximum distance from transmitter:      m(5 m is minimum) |
| **.** | **Alarm Relays** |  |
| .. | Standard relays provided in the proposed product on Form B? | [ ]  Fault[ ]  Alarm 1[ ]  Alarm 2[ ]  Alarm 3[ ]  Other:       |
| .. | Describe the maximum available optional relay configuration for the proposed transmitter? | [ ]  Fixed Relays:[ ]  Fault[ ]  Alarm 1 – Configurable Setpoint[ ]  Alarm 2 – Configurable Setpoint[ ]  Alarm 3 – Configurable Setpoint[ ]  Other:      [ ]  Programmable Relays:Qty:       |
| .. | Relay type | [ ]  Form A [ ]  Form B[ ]  Form C (SPDT)[ ]  Form C (DPDT) |
| .. | Maximum current rating of relays at 120 VAC | [ ]  Not rated for 120 VAC[ ]  < 1 A[ ]  1 to 2 A [ ]  2 to 4 A[ ]  ≥ 5 A |
| **.** | **Output Signals** |  |
| .. | Output signals provided with proposed product, as priced on Form B. | [ ]  4 – 20 mA (mandatory)[ ]  HART (mandatory)[ ]  Other:       |
| **.** | **IR Sensor** |  |
| .. | IR sensor measurement range provided | [ ]  0 - 100% LEL (specified)[ ]  0 - 100% by volume[ ]  Other:       |
| .. | Infrared sensor drift at 0 to 100 %LEL measuring range  | [ ]  Not publishedZero drift:       %LEL/yearSpan drift:       %LEL/year |
| .. | Infrared sensor accuracy (CH4) | [ ]  Not published (Not acceptable)      % of full scale (<50% LEL)      % of full scale (>50% LEL)Other Details:       |
| .. | Infrared sensor response time (CH4) | [ ]  Not publishedT90:       secondsT63:       secondsT50:       seconds |
| .. | Infrared sensor repeatability (CH4) | [ ]  Not published[ ]  < 1% of full scale[ ]  1% to 2% of full scale[ ]  2% to 3% of full scale[ ]  > 3% of full scale |
| .. | Does the dector have heated optics to prevent condensation? | [ ]  Yes[ ]  No |
| .. | Is the detector double compensated with two lamps and two detectors? | [ ]  Yes[ ]  No[ ]  Other:       |
| **.** | **Gas Detection Controller System – Type 1** |  |
| **.** | **General** |  |
| .. | Manufacturer Name |       |
| .. | Complete model number of the Controller and all accessory components included in the proposal and priced on Form B. | **Description** **Model Number**Controller       Accessories:                                                                                                 |
| .. | Controller documentation | [ ]  Product datasheets included with proposal[ ]  Product O&M manuals included with proposal |
| .. | Global installed base of the proposed model number. | [ ]  Information not available[ ]  < 100 units[ ]  100 - 999 units[ ]  1000 - 9999 units[ ]  > 10,000 units |
| .. | Years that this model has been actively produced and sold. | [ ]  <1 year[ ]  1 to 2 years[ ]  2 to 5 years[ ]  5 to 10 years[ ]  10 to 15 years[ ]  >15 years |
| .. | Active sale and production guarantee | [ ]  No plans to remove the proposed product 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: [ ]  10 or more years of active production.[ ]  5 or more years of active production.[ ]  less than 5 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[ ]  10 or more years[ ]  9[ ]  8[ ]  7[ ]  6[ ]  5[ ]  <5 years (Not acceptable)Additional Details:       |
| .. | Certifications | [ ]  cUL[ ]  CSA (General)[ ]  CSA 22.2 No. 152 |
| **.** | **Input Channels** |  |
| .. | Proposed system and input channel configuration.Minimum channels: 4 | [ ]  A single controller is proposed to address the minimum of four channels specified. Number of base channels per controller:       [ ]  Multiple controllers are proposed to address the minimum of four channels specified.Number of controllers per system:       Number of base channels per controller:        |
| .. | Identify the maximum number of input channels available per controller in the proposed model series.  |       channels |
| .. | Input Channel Type | [ ]  4 – 20 mA [ ]  4 – 20 mA and HART communication capability[ ]  Other:       |
| **.** | **Display** |  |
| .. | Local display on front of controller? | [ ]  Not provided.[ ]  Provided, details below.[ ]  LED[ ]  LCD – Not Backlit[ ]  Backlit LCD[ ]  Other:      Size:[ ]  64 x 120 pixel or smaller[ ]  64 x 120 pixel to 128 x 240 pixel[ ]  larger than 128 x 240 pixel[ ]  Other:       |
| .. | Is access to user controls available without opening the enclosure? | [ ]  Yes[ ]  No |
| .. | Can all active channel measurement levels be displayed simultaneously? | [ ]  Yes[ ]  Via separate LED display[ ]  Via main LCD display[ ]  No |
| .. | Discrete status LEDs present on front of controller for each channel, independent of the main display? (Do not include status indication on the LCD display.) | [ ]  Alarm @ Setpoint 1[ ]  Alarm @ Setpoint 2[ ]  Trouble[ ]  Active (or equivalent)[ ]  Other. Decribe below:       |
| .. | Controller Configuration | [ ]  Via display and local interface[ ]  Via software available for PC with configuration load/save feature.[ ]  Provided with controller[ ]  Available as an option.[ ]  For manufacturer service personnel only.[ ]  Other. Decribe below:       |
| .. | Trending Capability |  [ ]  Via Local Display[ ]  Fixed: last       hours[ ]  Scalable: last       to       hours [ ]  Remotely provided via separate softwareOther details:       |
| **.** | **Output Relays** |  |
| .. | Proposed output relay configuration.*Note that one common fault relay and two relays per input channel are specified.* | Number of common relays associatedwith the overall system status:       Relays per input channel Fixed function:        Programmable function:        |
| .. | Relay type | [ ]  Form A [ ]  Form B[ ]  Form C (SPDT)[ ]  Form C (DPDT) |
| .. | Maximum current rating of relays at 120 VAC | [ ]  Not rated for 120 VAC[ ]  < 1 A[ ]  1 to 2 A [ ]  2 to 4 A[ ]  ≥ 5 A |
| .. | Are additional individual channel relays available as an option? | [ ]  Yes [ ]  No  |
| .. | Individual input channels can be combined into different alarm zones? | [ ]  Yes, configurable as a setting in controller configuration[ ]  Yes, configurable with hardware DIP/jumper setup[ ]  Yes, configurable via wiring multiple relays[ ]  No |
| **.** | **Enclosure and Environmental**  |  |
| .. | Enclosure rating  | [ ]  NEMA 1 (Not acceptable)[ ]  NEMA 3 (Not acceptable)[ ]  NEMA 12[ ]  NEMA 4[ ]  NEMA 4X[ ]  Other:       |
| .. | Field termination wiring space. | Provide reference information to identify the field wiring space in the controller.      |
| .. | Proposed controller hazardous rating: | [ ]  Unclassified[ ]  Class I, Div/Zone 2[ ]  Class I, Div/Zone 1 |
| .. | Controller ambient temperature range. |       to       degrees C |
| **.** | **Communication** |  |
| .. | Communication protocols provided with proposed product, as priced on Form B. | [ ]  None (Not acceptable)[ ]  RS-485 Modbus RTU[ ]  Modbus TCP[ ]  PROFIBUS DP[ ]  Other:        |
| .. | Optional communication protocols available, without the use of an external gateway? | [ ]  Modbus TCP[ ]  PROFIBUS DP[ ]  Other:        |
| **.** | **Gas Detection Controller System – Type 2** |  |
| **.** | **General** |  |
| .. | Manufacturer Name |       |
| .. | Complete model number of the Controller and all accessory components included in the proposal and priced on Form B. | **Description** **Model Number**Controller       Accessories:                                                                                                 |
| .. | Controller documentation | [ ]  Product datasheets included with proposal[ ]  Product O&M manuals included with proposal |
| .. | Global installed base of the proposed model number. | [ ]  Information not available[ ]  < 100 units[ ]  100 - 999 units[ ]  1000 - 9999 units[ ]  > 10,000 units |
| .. | Years that this model has been actively produced and sold. | [ ]  <1 year[ ]  1 to 2 years[ ]  2 to 5 years[ ]  5 to 10 years[ ]  10 to 15 years[ ]  >15 years |
| .. | Active sale and production guarantee | [ ]  No plans to remove the proposed product 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: [ ]  10 or more years of active production.[ ]  5 or more years of active production.[ ]  less than 5 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[ ]  10 or more years[ ]  9[ ]  8[ ]  7[ ]  6[ ]  5[ ]  <5 years (Not acceptable)Additional Details:       |
| .. | Certifications | [ ]  cUL[ ]  CSA (General)[ ]  CSA 22.2 No. 152 |
| **.** | **Input Channels** |  |
| .. | Proposed system and input channel configuration.Minimum channels: 16 | [ ]  A single controller is proposed to address the minimum of sixteen channels specified. Number of base channels per controller:       [ ]  Multiple controllers are proposed to address the minimum of sixteen channels specified.Number of controllers per system:       Number of base channels per controller:        |
| .. | Identify the maximum number of input channels available per controller in the proposed model series.  |       channels |
| .. | Input Channel Type | [ ]  4 – 20 mA [ ]  4 – 20 mA and HART communication capability[ ]  Other:       |
| **.** | **Display** |  |
| .. | Local display on front of controller? | [ ]  Not provided.[ ]  Provided, details below.[ ]  LED[ ]  LCD – Not Backlit[ ]  Backlit LCD[ ]  Other:      Size:[ ]  64 x 120 pixel or smaller[ ]  64 x 120 pixel to 128 x 240 pixel[ ]  larger than 128 x 240 pixel[ ]  Other:       |
| .. | Is access to user controls available without opening the enclosure? | [ ]  Yes[ ]  No |
| .. | Can all active channel measurement levels be displayed simultaneously? | [ ]  Yes[ ]  Via separate LED display[ ]  Via main LCD display[ ]  No |
| .. | Discrete status LEDs present on front of controller for each channel, independent of the main display? (Do not include status indication on the LCD display.) | [ ]  Alarm @ Setpoint 1[ ]  Alarm @ Setpoint 2[ ]  Trouble[ ]  Active (or equivalent)[ ]  Other. Decribe below:       |
| .. | Controller Configuration | [ ]  Via display and local interface (mandatory)[ ]  Via software available for PC with configuration load/save feature.[ ]  Provided with controller[ ]  Available as an option.[ ]  For manufacturer service personnel only.[ ]  Other. Decribe below:       |
| .. | Trending Capability |  [ ]  Via Local Display[ ]  Fixed: last       hours[ ]  Scalable: last       to       hours [ ]  Remotely provided via separate softwareOther details:      |
| **.** | **Output Relays** |  |
| .. | Proposed output relay configuration.*Note that one common fault relay and two relays per input channel are specified.* | Number of common relays associatedwith the overall system status:       Relays per input channel Fixed function:        Programmable function:        |
| .. | Relay configuration | [ ]  Form A [ ]  Form B[ ]  Form C (SPDT)[ ]  Form C (DPDT) |
| .. | Maximum current rating of relays at 120 VAC | [ ]  Not rated for 120 VAC[ ]  < 1 A[ ]  1 to 2 A [ ]  2 to 4 A[ ]  ≥ 5 A |
| .. | Are additional individual channel relays available as an option? | [ ]  Yes [ ]  No  |
| .. | Individual input channels can be combined into different alarm zones? | [ ]  Yes, configurable as a setting in controller setup[ ]  Yes, configurable with hardware DIP/jumper setup[ ]  Yes, configurable via wiring multiple relays[ ]  No |
| **.** | **Enclosure and Environmental**  |  |
| .. | Enclosure rating  | [ ]  NEMA 1 (Not acceptable)[ ]  NEMA 3 (Not acceptable)[ ]  NEMA 12[ ]  NEMA 4[ ]  NEMA 4X[ ]  Other:       |
| .. | Field termination wiring space. | Provide reference information to identify the field wiring space in the controller.      |
| .. | Proposed controller hazardous rating: | [ ]  Unclassified[ ]  Class I, Div/Zone 2[ ]  Class I, Div/Zone 1 |
| .. | Controller ambient temperature range. |       to       degrees C |
| **.** | **Communication** |  |
| .. | Communication protocols provided with proposed product, as priced on Form B. | [ ]  None (Not acceptable)[ ]  RS-485 Modbus RTU[ ]  Modbus TCP[ ]  PROFIBUS DP[ ]  Other:        |
| .. | Optional communication protocols available, without the use of an external gateway? | [ ]  Modbus TCP[ ]  PROFIBUS DP[ ]  Other:        |
| **.** | **Miscellaneous** |  |
| **.** | **Gas Detector Configuration Hardware/Software** |  |
| .. | Provide description and model number of all provided configuration hardware and software. If different hardware / software are required for the various types of detectors, then provide one component of each type required. | **Description** **Model Number**                                     |
| **.** | **Gas Detection Controller Configuration Software** |  |
| .. | Provide description and model number of all provided configuration software | **Description** **Model Number**                                     |
| **.** | **Sample Pump Module** |  |
| .. | Is a sample pump module being proposed? | [ ]  Yes[ ]  No |
| .. | Complete model number of the Sample Pump Module and all accessory components included in the proposal and priced on Form B. | **Description** **Model Number**Sample Pump Module       Accessories:                         |
| .. | Technology used to draw sample? | [ ]  Eductor[ ]  Pump[ ]  Both are available |
| .. | Maximum sample length tubing? | [ ]  <10 meters[ ]  10 to 50 meters[ ]  >50 meters |
| .. | Voltage rating of pump | [ ]  Only and educator is proposed[ ]  24 VDC[ ]  120 VAC[ ]  Both voltages are available |
| .. | Maximum current rating of flow switch contact at 120 VAC | [ ]  Not rated for 120 VAC[ ]  < 1 A[ ]  1 to 2 A [ ]  2 to 5 A[ ]  > 5 A |
| **.** | **Calibration Systems** |  |
| .. | Complete model number of the H2S Calibration System in the proposal and priced on Form B. | **Description** **Model Number**H2S Calibration System       Accessories:                         |
| .. | Complete model number of the Oxygen Calibration System in the proposal and priced on Form B. | **Description** **Model Number**Oxygen Calibration System       Accessories:                         |
| .. | Complete model number of the Carbon Monoxide Calibration System in the proposal and priced on Form B. | **Description** **Model Number**CO Calibration System       Accessories:                         |
| .. | Complete model number of the Methane Calibration System in the proposal and priced on Form B. | **Description** **Model Number**Methane Calibration System       Accessories:                         |
| **.** | **Warranty** |  |
| **.** | **General** |  |
| .. | CO/H2S/O2 Transmitter Warranty Length (Beginning on the date of successful commissioning or 6 months afer delivery, whichever comes sooner) | [ ]  One-year[ ]  Longer than one-year: Indicate length below:       years |
| .. | Overall Infrared Sensor/Transmitter Warranty Length (Beginning on the date of successful commissioning or 6 months afer delivery, whichever comes sooner) | [ ]  One-year[ ]  Longer than one-year: Indicate length below:       years |
| .. | Infrared Source Warranty Length (Beginning on the date of successful commissioning or 6 months afer delivery, whichever comes sooner) | [ ]  One-year[ ]  Longer than one-year: Indicate length below:       years |
| .. | Controller – Type 1 Warranty Length (Beginning on the date of successful commissioning or 6 months afer delivery, whichever comes sooner) | [ ]  One-year[ ]  Longer than one-year: Indicate length below:       years |
| .. | Controller – Type 2 Warranty Length (Beginning on the date of successful commissioning or 6 months afer delivery, whichever comes sooner) | [ ]  One-year[ ]  Longer than one-year: Indicate length below:       years |
| **.** | **Service and Support** |  |
| **.** | **General** |  |
| .. | Describe Bidder’s relationship with the manufacturer. | [ ]  Bidder is the manufacturer[ ]  Bidder is a distributor[ ]  Other:      |
| .. | Proposed Bidder account manager: | Name:       Responsibilities:       Relevant Experience:       Certifications:        |
| .. | Bidder account manager’s hours of business |       |
| **.** | **Local Support** |  |
| .. | Describe who will be providing local support for the proposed products, and where they are located. |       |
| .. | Local support hours of business |       |
| .. | Local support personnel | Name:       Responsibilities:       Relevant Experience:       Certifications:       Years of experience with proposed products:       Name:       Responsibilities:       Relevant Experience:       Certifications:       Years of experience with proposed products:        |
| **.** | **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:        |
| **.** | **Delivery** |  |
| .. | Proposed delivery timeframe for sensors and transmitters from the date of order. | Average:       calendar daysMaximum:       calendar days (Not to exceed 56) |
| .. | Proposed delivery timeframe for controller from the date of order. | Average:       calendar daysMaximum:       calendar days (Not to exceed 70) |