

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
1.0	Published Canadian Price List	
1.1	General	
1.1.1	As requested in B12, is a standard price list provided?	<input type="checkbox"/> Yes, a price list is provided: <input type="checkbox"/> The price list is a published Canadian price list, applicable to all Canadian sales. <input type="checkbox"/> The price list is for the following region: _____
1.1.2	Is the price list comprehensive of the manufacturer's entire fixed gas detection offering, including all replacement parts?	<input type="checkbox"/> Yes <input type="checkbox"/> No. Provide details below: _____
1.1.3	Is the price list consistent with the prices and discounts indicated on Form B?	<input type="checkbox"/> Yes <input type="checkbox"/> No. Provide details below: _____
2.0	CO, H2S and O2 Detectors	
2.1	General	
2.1.1	Manufacturer Name	
2.1.2	Years that the transmitter model has been actively produced and sold.	<input type="checkbox"/> <1 year <input type="checkbox"/> 1 to 2 years <input type="checkbox"/> 2 to 5 years <input type="checkbox"/> 5 to 10 years <input type="checkbox"/> 10 to 15 years <input type="checkbox"/> >15 years
2.1.3	Documentation	<input type="checkbox"/> Product datasheets included with proposal <input type="checkbox"/> Product O&M manuals included with proposal

FORM P: PROPOSAL INFORMATION

2.1.4	Enclosure material for the proposed transmitter	<input type="checkbox"/> Copper-free aluminum with epoxy/polyester coating <input type="checkbox"/> Stainless Steel <input type="checkbox"/> Other: _____
2.1.5	Enclosure materials available as an option	<input type="checkbox"/> Copper-free aluminum with epoxy/polyester coating <input type="checkbox"/> Stainless Steel <input type="checkbox"/> Other: _____
2.1.6	Sensor capable of field replacement without de-classifying the area?	<input type="checkbox"/> Yes <input type="checkbox"/> No
2.1.7	List other gas sensors available that could be applicable in a wastewater treatment facility.	<input type="checkbox"/> Chlorine <input type="checkbox"/> Carbon Dioxide <input type="checkbox"/> Sulfur Dioxide <input type="checkbox"/> Other: _____ <input type="checkbox"/> Other: _____ <input type="checkbox"/> Other: _____ <input type="checkbox"/> Other: _____
2.2	Mounting Options	
2.2.1	Surface Mount Kit	<input type="checkbox"/> Included on Form B price <input type="checkbox"/> Optional <input type="checkbox"/> Not Available
2.2.2	Pipe Mount Kit	<input type="checkbox"/> Included on Form B price <input type="checkbox"/> Optional <input type="checkbox"/> Not Available
2.2.3	Duct Mount Kit	<input type="checkbox"/> Included on Form B price <input type="checkbox"/> Optional <input type="checkbox"/> Not Available
2.3	Certifications	
2.3.1	ISA 92.00.01 (3 rd Party Certification)	<input type="checkbox"/> Yes <input type="checkbox"/> No
2.3.2	Hazardous Certification	<input type="checkbox"/> Unclassified <input type="checkbox"/> Class I, Div/Zone 2 <input type="checkbox"/> Class I, Div/Zone 1

FORM P: PROPOSAL INFORMATION

2.3.3	SIL Certification	<input type="checkbox"/> None <input type="checkbox"/> SIL 1 <input type="checkbox"/> SIL 2 Certified By: _____ Details: _____
2.4	Display and Configuration	
2.4.1	Display type	<input type="checkbox"/> Not provided. (Not Acceptable) <input type="checkbox"/> Provided, details below. <input type="checkbox"/> LED Segment Display <input type="checkbox"/> LCD Display <input type="checkbox"/> Organic LED Display <input type="checkbox"/> Other: _____
2.4.2	Content on the display	<input type="checkbox"/> Not provided. (Not Acceptable) <input type="checkbox"/> Provided, details below. <input type="checkbox"/> Measured value only <input type="checkbox"/> Measured value with status and calibration messages <input type="checkbox"/> Other: _____
2.4.3	Status LEDs on the front of the transmitter?	<input type="checkbox"/> Not provided. <input type="checkbox"/> Provided, details below. <input type="checkbox"/> Power LED <input type="checkbox"/> Status LED <input type="checkbox"/> Alarm <input type="checkbox"/> Other: _____
2.4.4	Interface for calibration in a Hazardous Classified area?	<input type="checkbox"/> Pushbuttons on display <input type="checkbox"/> Magnetic wand on display <input type="checkbox"/> Infrared Remote <input type="checkbox"/> Intrinsically safe HART connection <input type="checkbox"/> Other: _____
2.4.5	Is an option to locate the sensor remote from the transmitter available? (Not required on Form B price.)	<input type="checkbox"/> No <input type="checkbox"/> Yes, maximum sensor distance from transmitter: <input type="checkbox"/> < 5 m <input type="checkbox"/> 5 to 10 m <input type="checkbox"/> > 10 m

FORM P: PROPOSAL INFORMATION

2.4.6	Is a remote calibration option available? (Not required on Form B price.)	<input type="checkbox"/> No <input type="checkbox"/> Yes, maximum distance from transmitter: <input type="checkbox"/> < 5 m <input type="checkbox"/> 5 to 10 m <input type="checkbox"/> > 10 m
2.5	Alarm Relays Describe the relay configuration, where optional or proposed.	
2.5.1	Relay configuration for the transmitter?	<input type="checkbox"/> Fixed Relays: <input type="checkbox"/> Fault <input type="checkbox"/> Alarm 1 – Configurable Setpoint <input type="checkbox"/> Alarm 2 – Configurable Setpoint <input type="checkbox"/> Alarm 3 – Configurable Setpoint <input type="checkbox"/> Other: _____ <input type="checkbox"/> Programmable Relays: Qty: _____
2.5.2	Relay type	<input type="checkbox"/> Form A <input type="checkbox"/> Form B <input type="checkbox"/> Form C (SPDT) <input type="checkbox"/> Form C (DPDT)
2.5.3	Maximum current rating of relays at 120 VAC	<input type="checkbox"/> Not rated for 120 VAC <input type="checkbox"/> < 1 A <input type="checkbox"/> 1 to 2 A <input type="checkbox"/> 2 to 4 A <input type="checkbox"/> ≥ 5 A
2.6	Output Signals	
2.6.1	Output signals provided with proposed product, as priced on Form B.	<input type="checkbox"/> 4 – 20 mA (mandatory) <input type="checkbox"/> HART (mandatory) <input type="checkbox"/> Other: _____

FORM P: PROPOSAL INFORMATION

2.7	CO Detector																			
2.7.1	Complete model number of the CO Detector and all accessory components included in the proposal and priced on Form B.	<table border="0"> <thead> <tr> <th style="text-align: left;">Description</th> <th style="text-align: left;">Model Number</th> </tr> </thead> <tbody> <tr> <td>Transmitter</td> <td>_____</td> </tr> <tr> <td>Display, 4-20 mA, HART and relays mandatory.</td> <td></td> </tr> <tr> <td>Sensor</td> <td>_____</td> </tr> <tr> <td>Accessories:</td> <td></td> </tr> <tr> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> </tr> </tbody> </table>	Description	Model Number	Transmitter	_____	Display, 4-20 mA, HART and relays mandatory.		Sensor	_____	Accessories:		_____	_____	_____	_____	_____	_____	_____	_____
Description	Model Number																			
Transmitter	_____																			
Display, 4-20 mA, HART and relays mandatory.																				
Sensor	_____																			
Accessories:																				
_____	_____																			
_____	_____																			
_____	_____																			
_____	_____																			
2.7.2	CO sensor operating temperature range	_____ °C to _____ °C																		
2.7.3	CO sensor operating humidity range	_____ %RH to _____ %RH																		
2.7.4	CO sensor measurement range provided	<input type="checkbox"/> 0 - 100 ppm <input type="checkbox"/> 0 - 500 ppm (specified) <input type="checkbox"/> Other:																		
2.7.5	CO sensor optional available measurement ranges	<input type="checkbox"/> 0 - 100 ppm <input type="checkbox"/> 0 - 500 ppm <input type="checkbox"/> Other:																		
2.7.6	CO Sensor Accuracy	<input type="checkbox"/> Not published (Not acceptable) The greater of: _____ % of reading; _____ % of full scale; or _____ ppm																		
2.7.7	CO Sensor Response Time	<input type="checkbox"/> Not published T90: _____ seconds T63: _____ seconds T50: _____ seconds																		
2.7.8	CO sensor has on-board memory containing sensor type, serial number and calibration data?	<input type="checkbox"/> Yes <input type="checkbox"/> No																		
2.7.9	CO sensor has the capability to be calibrated remotely in a shop?	<input type="checkbox"/> Yes <input type="checkbox"/> No																		

FORM P: PROPOSAL INFORMATION

2.7.10	CO sensor drift/calibration interval. Provide available specifications.	<input type="checkbox"/> Not published Typical Calibration Interval: _____ months Zero Drift: _____ % full scale/month _____ % full scale/year Span Drift: _____ % full scale /month _____ % full scale /year																
2.7.11	CO sensor life expectancy in a typical environment with low normal CO concentrations.	<input type="checkbox"/> Not published <input type="checkbox"/> ≥ 5 years <input type="checkbox"/> 3 to 4 years <input type="checkbox"/> 1 to 2 years <input type="checkbox"/> < 1 year																
2.8	H2S Detector																	
2.8.1	Complete model number of the H2S Detector and all accessory components included in the proposal and priced on Form B.	<table border="0"> <thead> <tr> <th data-bbox="818 995 1101 1024">Description</th> <th data-bbox="1101 995 1518 1024">Model Number</th> </tr> </thead> <tbody> <tr> <td data-bbox="818 1045 1101 1075">Transmitter</td> <td data-bbox="1101 1045 1518 1075">_____</td> </tr> <tr> <td colspan="2" data-bbox="818 1096 1518 1125">Display, 4-20 mA, and HART mandatory.</td> </tr> <tr> <td data-bbox="818 1146 1101 1176">Sensor</td> <td data-bbox="1101 1146 1518 1176">_____</td> </tr> <tr> <td data-bbox="818 1197 1101 1226">Accessories:</td> <td data-bbox="1101 1197 1518 1226">_____</td> </tr> <tr> <td data-bbox="818 1247 1101 1276">_____</td> <td data-bbox="1101 1247 1518 1276">_____</td> </tr> <tr> <td data-bbox="818 1297 1101 1327">_____</td> <td data-bbox="1101 1297 1518 1327">_____</td> </tr> <tr> <td data-bbox="818 1348 1101 1377">_____</td> <td data-bbox="1101 1348 1518 1377">_____</td> </tr> </tbody> </table>	Description	Model Number	Transmitter	_____	Display, 4-20 mA, and HART mandatory.		Sensor	_____	Accessories:	_____	_____	_____	_____	_____	_____	_____
Description	Model Number																	
Transmitter	_____																	
Display, 4-20 mA, and HART mandatory.																		
Sensor	_____																	
Accessories:	_____																	
_____	_____																	
_____	_____																	
_____	_____																	
2.8.2	H2S sensor operating temperature range	_____ °C to _____ °C																
2.8.3	H2S sensor operating humidity range	_____ %RH to _____ %RH																
2.8.4	H2S sensor measurement range provided	<input type="checkbox"/> 0 - 20 ppm <input type="checkbox"/> 0 - 50 ppm (specified) <input type="checkbox"/> 0 - 100 ppm <input type="checkbox"/> Other:																
2.8.5	H2S sensor optional available measurement ranges	<input type="checkbox"/> 0 - 20 ppm <input type="checkbox"/> 0 - 50 ppm <input type="checkbox"/> 0 - 100 ppm <input type="checkbox"/> Other:																

FORM P: PROPOSAL INFORMATION

2.8.6	H2S Sensor Accuracy	<input type="checkbox"/> Not published (Not acceptable) The greater of: _____ % of reading; _____ % of full scale; or _____ ppm
2.8.7	H2S Sensor Response Time	<input type="checkbox"/> Not published T90: _____ seconds T63: _____ seconds T50: _____ seconds
2.8.8	H2S sensor has on-board memory containing sensor type, serial number and calibration data?	<input type="checkbox"/> Yes <input type="checkbox"/> No
2.8.9	H2S sensor has the capability to be calibrated remotely in a shop?	<input type="checkbox"/> Yes <input type="checkbox"/> No
2.8.10	H2S sensor drift/calibration interval. Provide available specifications.	<input type="checkbox"/> Not published Typical Calibration Interval: _____ months Zero Drift: _____ % full scale/month _____ % full scale /year Span Drift: _____ % full scale /month _____ % full scale /year
2.8.11	H2S sensor life expectancy in typical environment with low normal H2S concentrations	<input type="checkbox"/> Not published <input type="checkbox"/> ≥ 5 years <input type="checkbox"/> 3 to 4 years <input type="checkbox"/> < 2 years <input type="checkbox"/> < 1 year
2.8.12	Other H2S sensor technologies available for the proposed transmitter.	<input type="checkbox"/> MOS <input type="checkbox"/> Nano-enhanced MOS <input type="checkbox"/> Other: _____

FORM P: PROPOSAL INFORMATION

2.9	O2 Sensor																			
2.9.1	Complete model number of the O2 Detector and all accessory components included in the proposal and priced on Form B.	<table border="0"> <thead> <tr> <th style="text-align: left;">Description</th> <th style="text-align: left;">Model Number</th> </tr> </thead> <tbody> <tr> <td>Transmitter</td> <td>_____</td> </tr> <tr> <td>Display, 4-20 mA, and HART mandatory.</td> <td></td> </tr> <tr> <td>Sensor</td> <td>_____</td> </tr> <tr> <td>Accessories:</td> <td></td> </tr> <tr> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> </tr> </tbody> </table>	Description	Model Number	Transmitter	_____	Display, 4-20 mA, and HART mandatory.		Sensor	_____	Accessories:		_____	_____	_____	_____	_____	_____	_____	_____
Description	Model Number																			
Transmitter	_____																			
Display, 4-20 mA, and HART mandatory.																				
Sensor	_____																			
Accessories:																				
_____	_____																			
_____	_____																			
_____	_____																			
_____	_____																			
2.9.2	O2 sensor operating temperature range	_____ °C to _____ °C																		
2.9.3	O2 sensor operating humidity range	_____ %RH to _____ %RH																		
2.9.4	O2 sensor measurement range provided	<input type="checkbox"/> 0 - 25% by volume (specified) <input type="checkbox"/> 0 - 100% by volume <input type="checkbox"/> Other: _____																		
2.9.5	O2 Sensor Accuracy	<input type="checkbox"/> Not published (Not acceptable) The greater of: _____ % of reading; _____ % of full scale; or _____ ppm																		
2.9.6	O2 Sensor Response Time	<input type="checkbox"/> Not published T90: _____ seconds T63: _____ seconds T50: _____ seconds																		
2.9.7	O2 sensor has on-board memory containing sensor type, serial number and calibration data?	<input type="checkbox"/> Yes <input type="checkbox"/> No																		
2.9.8	O2 sensor has the capability to be calibrated remotely in a shop?	<input type="checkbox"/> Yes <input type="checkbox"/> No																		

FORM P: PROPOSAL INFORMATION

2.9.9	O2 sensor drift/calibration interval. Provide available specifications.	<input type="checkbox"/> Not published Typical Calibration Interval: _____ months Zero Drift: _____ % full scale /month _____ % full scale /year Span Drift: _____ % full scale /month _____ % full scale /year																
2.9.10	O2 sensor life expectancy in a typical environment	<input type="checkbox"/> Not published <input type="checkbox"/> ≥ 5 years <input type="checkbox"/> 3 to 4 years <input type="checkbox"/> < 2 years <input type="checkbox"/> < 1 year																
3.0	IR Hydrocarbon Detectors																	
3.1	General																	
3.1.1	Manufacturer Name																	
3.1.2	Complete model number of the IR Hydrocarbon Detector and all accessory components included in the proposal and priced on Form B.	<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;">Description</th> <th style="text-align: left;">Model Number</th> </tr> </thead> <tbody> <tr> <td>Transmitter</td> <td>_____</td> </tr> <tr> <td colspan="2">4 – 20 mA and HART mandatory.</td> </tr> <tr> <td colspan="2">Accessories:</td> </tr> <tr> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> </tr> </tbody> </table>	Description	Model Number	Transmitter	_____	4 – 20 mA and HART mandatory.		Accessories:		_____	_____	_____	_____	_____	_____	_____	_____
Description	Model Number																	
Transmitter	_____																	
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Accessories:																		
_____	_____																	
_____	_____																	
_____	_____																	
_____	_____																	
3.1.3	Years that the transmitter model has been actively produced and sold.	<input type="checkbox"/> <1 year <input type="checkbox"/> 1 to 2 years <input type="checkbox"/> 2 to 5 years <input type="checkbox"/> 5 to 10 years <input type="checkbox"/> 10 to 15 years <input type="checkbox"/> >15 years																
3.1.4	Documentation	<input type="checkbox"/> Product datasheets included with proposal <input type="checkbox"/> Product O&M manuals included with proposal																

FORM P: PROPOSAL INFORMATION

3.1.5	Enclosure material for the proposed transmitter	<input type="checkbox"/> Copper-free aluminum with epoxy/polyester coating <input type="checkbox"/> Stainless Steel <input type="checkbox"/> Other: _____
3.1.6	Enclosure material available as an option	<input type="checkbox"/> Aluminum <input type="checkbox"/> Stainless Steel <input type="checkbox"/> Other: _____
3.2 Mounting Options		
3.2.1	Surface Mount Kit	<input type="checkbox"/> Included on Form B price <input type="checkbox"/> Optional <input type="checkbox"/> Not Available
3.2.2	Pipe Mount Kit	<input type="checkbox"/> Included on Form B price <input type="checkbox"/> Optional <input type="checkbox"/> Not Available
3.2.3	Duct Mount Kit	<input type="checkbox"/> Included on Form B price <input type="checkbox"/> Optional <input type="checkbox"/> Not Available
3.3 Certifications		
3.3.1	CSA 22.2 No. 152	<input type="checkbox"/> Yes <input type="checkbox"/> No (Not acceptable)
3.3.2	Hazardous Certification	<input type="checkbox"/> Unclassified <input type="checkbox"/> Class I, Div/Zone 2 <input type="checkbox"/> Class I, Div/Zone 1
3.3.3	SIL Certification	<input type="checkbox"/> None <input type="checkbox"/> SIL 1 <input type="checkbox"/> SIL 2 Certified By: _____ Details: _____

FORM P: PROPOSAL INFORMATION

<p>3.4</p>	<p>Display and Configuration</p>	
<p>3.4.1</p>	<p>Display type <i>Note that a display is not mandatory, provided the unit is capable of remote calibration.</i></p>	<p><input type="checkbox"/> Not provided <input type="checkbox"/> Provided, details below: <input type="checkbox"/> LED Segment Display <input type="checkbox"/> LCD Display <input type="checkbox"/> Organic LED Display <input type="checkbox"/> Other: _____</p>
<p>3.4.2</p>	<p>Content on the display <i>Note that a display is not mandatory, provided the unit is capable of remote calibration.</i></p>	<p><input type="checkbox"/> Not provided <input type="checkbox"/> Provided, details below: <input type="checkbox"/> Measured value only <input type="checkbox"/> Measured value with status and calibration messages <input type="checkbox"/> Other: _____</p>
<p>3.4.3</p>	<p>Status LEDs on front of transmitter?</p>	<p><input type="checkbox"/> Not provided. <input type="checkbox"/> Provided, details below. <input type="checkbox"/> Power LED <input type="checkbox"/> Status LED <input type="checkbox"/> Alarm <input type="checkbox"/> Other: _____</p>
<p>3.4.4</p>	<p>Interface for local calibration in a Hazardous Classified area?</p>	<p><input type="checkbox"/> Pushbuttons on display <input type="checkbox"/> Magnetic wand on display <input type="checkbox"/> Infrared Remote <input type="checkbox"/> Intrinsically safe HART connection – remote from sensor <input type="checkbox"/> Other: _____</p>
<p>3.4.5</p>	<p>Describe interface for remote calibration.</p>	<p><input type="checkbox"/> Remote transmitter <input type="checkbox"/> Remote display. Transmitter is local to the sensor. <input type="checkbox"/> Intrinsically safe HART connection – remote from sensor <input type="checkbox"/> Other: _____ Maximum sensor distance from transmitter/remote calibration: _____ m (5 m is minimum)</p>

FORM P: PROPOSAL INFORMATION

3.4.6	Describe means to remotely provide calibration gas to sensor.	Describe: _____ _____ _____ Maximum distance from transmitter: _____ m (5 m is minimum)
3.5	Alarm Relays	
3.5.1	Standard relays provided in the proposed product on Form B?	<input type="checkbox"/> Fault <input type="checkbox"/> Alarm 1 <input type="checkbox"/> Alarm 2 <input type="checkbox"/> Alarm 3 <input type="checkbox"/> Other: _____
3.5.2	Describe the maximum available optional relay configuration for the proposed transmitter?	<input type="checkbox"/> Fixed Relays: <input type="checkbox"/> Fault <input type="checkbox"/> Alarm 1 – Configurable Setpoint <input type="checkbox"/> Alarm 2 – Configurable Setpoint <input type="checkbox"/> Alarm 3 – Configurable Setpoint <input type="checkbox"/> Other: _____ <input type="checkbox"/> Programmable Relays: Qty: _____
3.5.3	Relay type	<input type="checkbox"/> Form A <input type="checkbox"/> Form B <input type="checkbox"/> Form C (SPDT) <input type="checkbox"/> Form C (DPDT)
3.5.4	Maximum current rating of relays at 120 VAC	<input type="checkbox"/> Not rated for 120 VAC <input type="checkbox"/> < 1 A <input type="checkbox"/> 1 to 2 A <input type="checkbox"/> 2 to 4 A <input type="checkbox"/> ≥ 5 A
3.6	Output Signals	
3.6.1	Output signals provided with proposed product, as priced on Form B.	<input type="checkbox"/> 4 – 20 mA (mandatory) <input type="checkbox"/> HART (mandatory) <input type="checkbox"/> Other: _____

FORM P: PROPOSAL INFORMATION

3.7	IR Sensor	
3.7.1	IR sensor measurement range provided	<input type="checkbox"/> 0 - 100% LEL (specified) <input type="checkbox"/> 0 - 100% by volume <input type="checkbox"/> Other: _____
3.7.2	Infrared sensor drift at 0 to 100 %LEL measuring range	<input type="checkbox"/> Not published Zero drift: _____ %LEL/year Span drift: _____ %LEL/year
3.7.3	Infrared sensor accuracy (CH ₄)	<input type="checkbox"/> Not published (Not acceptable) _____ % of full scale (<50% LEL) _____ % of full scale (>50% LEL) Other Details: _____
3.7.4	Infrared sensor response time (CH ₄)	<input type="checkbox"/> Not published T90: _____ seconds T63: _____ seconds T50: _____ seconds
3.7.5	Infrared sensor repeatability (CH ₄)	<input type="checkbox"/> Not published <input type="checkbox"/> < 1% of full scale <input type="checkbox"/> 1% to 2% of full scale <input type="checkbox"/> 2% to 3% of full scale <input type="checkbox"/> > 3% of full scale
3.7.6	Does the dector have heated optics to prevent condensation?	<input type="checkbox"/> Yes <input type="checkbox"/> No
3.7.7	Is the detector double compensated with two lamps and two detectors?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Other: _____

FORM P: PROPOSAL INFORMATION

4.0	Gas Detection Controller System – Type 1		
4.1	General		
4.1.1	Manufacturer Name		
4.1.2	Complete model number of the Controller and all accessory components included in the proposal and priced on Form B.	Description	Model Number
		Controller	_____
		Accessories:	
		_____	_____
		_____	_____
		_____	_____
		_____	_____
		_____	_____
		_____	_____
		_____	_____
		_____	_____
4.1.3	Controller documentation	<input type="checkbox"/> Product datasheets included with proposal <input type="checkbox"/> Product O&M manuals included with proposal	
4.1.4	Global installed base of the proposed model number.	<input type="checkbox"/> Information not available <input type="checkbox"/> < 100 units <input type="checkbox"/> 100 - 999 units <input type="checkbox"/> 1000 - 9999 units <input type="checkbox"/> > 10,000 units	
4.1.5	Years that this model has been actively produced and sold.	<input type="checkbox"/> <1 year <input type="checkbox"/> 1 to 2 years <input type="checkbox"/> 2 to 5 years <input type="checkbox"/> 5 to 10 years <input type="checkbox"/> 10 to 15 years <input type="checkbox"/> >15 years	
4.1.6	Active sale and production guarantee	<input type="checkbox"/> No plans to remove the proposed product from active sale and/or production are in place. <input type="checkbox"/> There are plans to remove the product for active sale and/or production, but plans call for: <input type="checkbox"/> 10 or more years of active production. <input type="checkbox"/> 5 or more years of active production. <input type="checkbox"/> less than 5 years of active production and sale. Additional Details:	

FORM P: PROPOSAL INFORMATION

4.3	Display	
4.3.1	Local display on front of controller?	<input type="checkbox"/> Not provided. <input type="checkbox"/> Provided, details below. <input type="checkbox"/> LED <input type="checkbox"/> LCD – Not Backlit <input type="checkbox"/> Backlit LCD <input type="checkbox"/> Other: _____ Size: <input type="checkbox"/> 64 x 120 pixel or smaller <input type="checkbox"/> 64 x 120 pixel to 128 x 240 pixel <input type="checkbox"/> larger than 128 x 240 pixel <input type="checkbox"/> Other: _____
4.3.2	Is access to user controls available without opening the enclosure?	<input type="checkbox"/> Yes <input type="checkbox"/> No
4.3.3	Can all active channel measurement levels be displayed simultaneously?	<input type="checkbox"/> Yes <input type="checkbox"/> Via separate LED display <input type="checkbox"/> Via main LCD display <input type="checkbox"/> No
4.3.4	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.)	<input type="checkbox"/> Alarm @ Setpoint 1 <input type="checkbox"/> Alarm @ Setpoint 2 <input type="checkbox"/> Trouble <input type="checkbox"/> Active (or equivalent) <input type="checkbox"/> Other. Describe below: _____
4.3.5	Controller Configuration	<input type="checkbox"/> Via display and local interface <input type="checkbox"/> Via software available for PC with configuration load/save feature. <input type="checkbox"/> Provided with controller <input type="checkbox"/> Available as an option. <input type="checkbox"/> For manufacturer service personnel only. <input type="checkbox"/> Other. Describe below: _____

FORM P: PROPOSAL INFORMATION

4.3.6	Trending Capability	<input type="checkbox"/> Via Local Display <input type="checkbox"/> Fixed: last _____ hours <input type="checkbox"/> Scalable: last _____ to _____ hours <input type="checkbox"/> Remotely provided via separate software Other details: _____
4.4 Output Relays		
4.4.1	Proposed output relay configuration. <i>Note that one common fault relay and two relays per input channel are specified.</i>	Number of common relays associated with the overall system status: _____ Relays per input channel Fixed function: _____ Programmable function: _____
4.4.2	Relay type	<input type="checkbox"/> Form A <input type="checkbox"/> Form B <input type="checkbox"/> Form C (SPDT) <input type="checkbox"/> Form C (DPDT)
4.4.3	Maximum current rating of relays at 120 VAC	<input type="checkbox"/> Not rated for 120 VAC <input type="checkbox"/> < 1 A <input type="checkbox"/> 1 to 2 A <input type="checkbox"/> 2 to 4 A <input type="checkbox"/> ≥ 5 A
4.4.4	Are additional individual channel relays available as an option?	<input type="checkbox"/> Yes <input type="checkbox"/> No
4.4.5	Individual input channels can be combined into different alarm zones?	<input type="checkbox"/> Yes, configurable as a setting in controller configuration <input type="checkbox"/> Yes, configurable with hardware DIP/jumper setup <input type="checkbox"/> Yes, configurable via wiring multiple relays <input type="checkbox"/> No
4.5 Enclosure and Environmental		
4.5.1	Enclosure rating	<input type="checkbox"/> NEMA 1 (Not acceptable) <input type="checkbox"/> NEMA 3 (Not acceptable) <input type="checkbox"/> NEMA 12 <input type="checkbox"/> NEMA 4 <input type="checkbox"/> NEMA 4X <input type="checkbox"/> Other:
4.5.2	Field termination wiring space.	Provide reference information to identify the field wiring space in the controller.

FORM P: PROPOSAL INFORMATION

4.5.3	Proposed controller hazardous rating:	<input type="checkbox"/> Unclassified <input type="checkbox"/> Class I, Div/Zone 2 <input type="checkbox"/> Class I, Div/Zone 1																							
4.5.4	Controller ambient temperature range.	_____ to _____ degrees C																							
4.6	Communication																								
4.6.1	Communication protocols provided with proposed product, as priced on Form B.	<input type="checkbox"/> None (Not acceptable) <input type="checkbox"/> RS-485 Modbus RTU <input type="checkbox"/> Modbus TCP <input type="checkbox"/> PROFIBUS DP <input type="checkbox"/> Other: _____																							
4.6.2	Optional communication protocols available, without the use of an external gateway?	<input type="checkbox"/> Modbus TCP <input type="checkbox"/> PROFIBUS DP <input type="checkbox"/> Other: _____																							
5.0	Gas Detection Controller System – Type 2																								
5.1	General																								
5.1.1	Manufacturer Name																								
5.1.2	Complete model number of the Controller and all accessory components included in the proposal and priced on Form B.	<table border="0"> <thead> <tr> <th style="text-align: left;">Description</th> <th style="text-align: left;">Model Number</th> </tr> </thead> <tbody> <tr> <td>Controller</td> <td>_____</td> </tr> <tr> <td>Accessories:</td> <td></td> </tr> <tr> <td>_____</td> <td>_____</td> </tr> </tbody> </table>	Description	Model Number	Controller	_____	Accessories:		_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	
Description	Model Number																								
Controller	_____																								
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_____	_____																								
5.1.3	Controller documentation	<input type="checkbox"/> Product datasheets included with proposal <input type="checkbox"/> Product O&M manuals included with proposal																							

FORM P: PROPOSAL INFORMATION

5.1.4	Global installed base of the proposed model number.	<input type="checkbox"/> Information not available <input type="checkbox"/> < 100 units <input type="checkbox"/> 100 - 999 units <input type="checkbox"/> 1000 - 9999 units <input type="checkbox"/> > 10,000 units
5.1.5	Years that this model has been actively produced and sold.	<input type="checkbox"/> <1 year <input type="checkbox"/> 1 to 2 years <input type="checkbox"/> 2 to 5 years <input type="checkbox"/> 5 to 10 years <input type="checkbox"/> 10 to 15 years <input type="checkbox"/> >15 years
5.1.6	Active sale and production guarantee	<input type="checkbox"/> No plans to remove the proposed product from active sale and/or production are in place. <input type="checkbox"/> There are plans to remove the product for active sale and/or production, but plans call for: <input type="checkbox"/> 10 or more years of active production. <input type="checkbox"/> 5 or more years of active production. <input type="checkbox"/> less than 5 years of active production and sale. Additional Details:
5.1.7	Product support guarantee	<input type="checkbox"/> The product is guaranteed to be operable, maintainable, and fully supported by the manufacturer, including availability of spare parts for <input type="checkbox"/> 10 or more years <input type="checkbox"/> 9 <input type="checkbox"/> 8 <input type="checkbox"/> 7 <input type="checkbox"/> 6 <input type="checkbox"/> 5 <input type="checkbox"/> <5 years (Not acceptable) Additional Details:
5.1.8	Certifications	<input type="checkbox"/> cUL <input type="checkbox"/> CSA (General) <input type="checkbox"/> CSA 22.2 No. 152

FORM P: PROPOSAL INFORMATION

5.2	Input Channels	
5.2.1	Proposed system and input channel configuration. Minimum channels: 16	<input type="checkbox"/> A single controller is proposed to address the minimum of sixteen channels specified. Number of base channels per controller: _____ <input type="checkbox"/> Multiple controllers are proposed to address the minimum of sixteen channels specified. Number of controllers per system: _____ Number of base channels per controller: _____
5.2.2	Identify the maximum number of input channels available per controller in the proposed model series.	_____ channels
5.2.3	Input Channel Type	<input type="checkbox"/> 4 – 20 mA <input type="checkbox"/> 4 – 20 mA and HART communication capability <input type="checkbox"/> Other: _____
5.3	Display	
5.3.1	Local display on front of controller?	<input type="checkbox"/> Not provided. <input type="checkbox"/> Provided, details below. <input type="checkbox"/> LED <input type="checkbox"/> LCD – Not Backlit <input type="checkbox"/> Backlit LCD <input type="checkbox"/> Other: _____ Size: <input type="checkbox"/> 64 x 120 pixel or smaller <input type="checkbox"/> 64 x 120 pixel to 128 x 240 pixel <input type="checkbox"/> larger than 128 x 240 pixel <input type="checkbox"/> Other: _____
5.3.2	Is access to user controls available without opening the enclosure?	<input type="checkbox"/> Yes <input type="checkbox"/> No
5.3.3	Can all active channel measurement levels be displayed simultaneously?	<input type="checkbox"/> Yes <input type="checkbox"/> Via separate LED display <input type="checkbox"/> Via main LCD display <input type="checkbox"/> No

FORM P: PROPOSAL INFORMATION

5.3.4	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.)	<input type="checkbox"/> Alarm @ Setpoint 1 <input type="checkbox"/> Alarm @ Setpoint 2 <input type="checkbox"/> Trouble <input type="checkbox"/> Active (or equivalent) <input type="checkbox"/> Other. Describe below: _____
5.3.5	Controller Configuration	<input type="checkbox"/> Via display and local interface (mandatory) <input type="checkbox"/> Via software available for PC with configuration load/save feature. <input type="checkbox"/> Provided with controller <input type="checkbox"/> Available as an option. <input type="checkbox"/> For manufacturer service personnel only. <input type="checkbox"/> Other. Describe below: _____
5.3.6	Trending Capability	<input type="checkbox"/> Via Local Display <input type="checkbox"/> Fixed: last _____ hours <input type="checkbox"/> Scalable: last _____ to _____ hours <input type="checkbox"/> Remotely provided via separate software Other details: _____
5.4 Output Relays		
5.4.1	Proposed output relay configuration. <i>Note that one common fault relay and two relays per input channel are specified.</i>	Number of common relays associated with the overall system status: _____ Relays per input channel Fixed function: _____ Programmable function: _____
5.4.2	Relay configuration	<input type="checkbox"/> Form A <input type="checkbox"/> Form B <input type="checkbox"/> Form C (SPDT) <input type="checkbox"/> Form C (DPDT)
5.4.3	Maximum current rating of relays at 120 VAC	<input type="checkbox"/> Not rated for 120 VAC <input type="checkbox"/> < 1 A <input type="checkbox"/> 1 to 2 A <input type="checkbox"/> 2 to 4 A <input type="checkbox"/> ≥ 5 A
5.4.4	Are additional individual channel relays available as an option?	<input type="checkbox"/> Yes <input type="checkbox"/> No

FORM P: PROPOSAL INFORMATION

5.4.5	Individual input channels can be combined into different alarm zones?	<input type="checkbox"/> Yes, configurable as a setting in controller setup <input type="checkbox"/> Yes, configurable with hardware DIP/jumper setup <input type="checkbox"/> Yes, configurable via wiring multiple relays <input type="checkbox"/> No								
5.5	Enclosure and Environmental									
5.5.1	Enclosure rating	<input type="checkbox"/> NEMA 1 (Not acceptable) <input type="checkbox"/> NEMA 3 (Not acceptable) <input type="checkbox"/> NEMA 12 <input type="checkbox"/> NEMA 4 <input type="checkbox"/> NEMA 4X <input type="checkbox"/> Other: _____								
5.5.2	Field termination wiring space.	Provide reference information to identify the field wiring space in the controller.								
5.5.3	Proposed controller hazardous rating:	<input type="checkbox"/> Unclassified <input type="checkbox"/> Class I, Div/Zone 2 <input type="checkbox"/> Class I, Div/Zone 1								
5.5.4	Controller ambient temperature range.	_____ to _____ degrees C								
5.6	Communication									
5.6.1	Communication protocols provided with proposed product, as priced on Form B.	<input type="checkbox"/> None (Not acceptable) <input type="checkbox"/> RS-485 Modbus RTU <input type="checkbox"/> Modbus TCP <input type="checkbox"/> PROFIBUS DP <input type="checkbox"/> Other: _____								
5.6.2	Optional communication protocols available, without the use of an external gateway?	<input type="checkbox"/> Modbus TCP <input type="checkbox"/> PROFIBUS DP <input type="checkbox"/> Other: _____								
6.0	Miscellaneous									
6.1	Gas Detector Configuration Hardware/Software									
6.1.1	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.	<table border="0"> <thead> <tr> <th style="text-align: left;">Description</th> <th style="text-align: left;">Model Number</th> </tr> </thead> <tbody> <tr> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> </tr> </tbody> </table>	Description	Model Number	_____	_____	_____	_____	_____	_____
Description	Model Number									
_____	_____									
_____	_____									
_____	_____									

FORM P: PROPOSAL INFORMATION

6.2	Gas Detection Controller Configuration Software											
6.2.1	Provide description and model number of all provided configuration software	<table border="0"> <thead> <tr> <th style="text-align: left;">Description</th> <th style="text-align: left;">Model Number</th> </tr> </thead> <tbody> <tr> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> </tr> </tbody> </table>	Description	Model Number	_____	_____	_____	_____	_____	_____		
Description	Model Number											
_____	_____											
_____	_____											
_____	_____											
6.3	Sample Pump Module											
6.3.1	Is a sample pump module being proposed?	<input type="checkbox"/> Yes <input type="checkbox"/> No										
6.3.2	Complete model number of the Sample Pump Module and all accessory components included in the proposal and priced on Form B.	<table border="0"> <thead> <tr> <th style="text-align: left;">Description</th> <th style="text-align: left;">Model Number</th> </tr> </thead> <tbody> <tr> <td>Sample Pump Module</td> <td>_____</td> </tr> <tr> <td>Accessories:</td> <td></td> </tr> <tr> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> </tr> </tbody> </table>	Description	Model Number	Sample Pump Module	_____	Accessories:		_____	_____	_____	_____
Description	Model Number											
Sample Pump Module	_____											
Accessories:												
_____	_____											
_____	_____											
6.3.3	Technology used to draw sample?	<input type="checkbox"/> Educator <input type="checkbox"/> Pump <input type="checkbox"/> Both are available										
6.3.4	Maximum sample length tubing?	<input type="checkbox"/> <10 meters <input type="checkbox"/> 10 to 50 meters <input type="checkbox"/> >50 meters										
6.3.5	Voltage rating of pump	<input type="checkbox"/> Only and educator is proposed <input type="checkbox"/> 24 VDC <input type="checkbox"/> 120 VAC <input type="checkbox"/> Both voltages are available										
6.3.6	Maximum current rating of flow switch contact at 120 VAC	<input type="checkbox"/> Not rated for 120 VAC <input type="checkbox"/> < 1 A <input type="checkbox"/> 1 to 2 A <input type="checkbox"/> 2 to 5 A <input type="checkbox"/> > 5 A										
6.4	Calibration Systems											
6.4.1	Complete model number of the H2S Calibration System in the proposal and priced on Form B.	<table border="0"> <thead> <tr> <th style="text-align: left;">Description</th> <th style="text-align: left;">Model Number</th> </tr> </thead> <tbody> <tr> <td>H2S Calibration System</td> <td>_____</td> </tr> <tr> <td>Accessories:</td> <td></td> </tr> <tr> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> </tr> </tbody> </table>	Description	Model Number	H2S Calibration System	_____	Accessories:		_____	_____	_____	_____
Description	Model Number											
H2S Calibration System	_____											
Accessories:												
_____	_____											
_____	_____											

FORM P: PROPOSAL INFORMATION

6.4.2	Complete model number of the Oxygen Calibration System in the proposal and priced on Form B.	<p>Description</p> <p>Oxygen Calibration System</p> <p>Accessories:</p> <p>_____</p> <p>_____</p>	<p>Model Number</p> <p>_____</p> <p>_____</p> <p>_____</p>
6.4.3	Complete model number of the Carbon Monoxide Calibration System in the proposal and priced on Form B.	<p>Description</p> <p>CO Calibration System</p> <p>Accessories:</p> <p>_____</p> <p>_____</p>	<p>Model Number</p> <p>_____</p> <p>_____</p> <p>_____</p>
6.4.4	Complete model number of the Methane Calibration System in the proposal and priced on Form B.	<p>Description</p> <p>Methane Calibration System</p> <p>Accessories:</p> <p>_____</p> <p>_____</p>	<p>Model Number</p> <p>_____</p> <p>_____</p> <p>_____</p>

FORM P: PROPOSAL INFORMATION

8.2.2	Local support hours of business	
8.2.3	Local support personnel	<p>Name: _____</p> <p>Responsibilities: _____</p> <p>Relevant Experience: _____</p> <p>Certifications: _____</p> <p>Years of experience with proposed products: _____</p> <p>Name: _____</p> <p>Responsibilities: _____</p> <p>Relevant Experience: _____</p> <p>Certifications: _____</p> <p>Years of experience with proposed products: _____</p>
8.3	Manufacturer Support Services	
8.3.1	Is manufacturer telephone technical support available?	<p><input type="checkbox"/> Yes – complete technical support</p> <p><input type="checkbox"/> Limited technical support (complete details below)</p> <p><input type="checkbox"/> Not available.</p> <p>Details: _____</p>
8.3.2	Availability of telephone technical support?	<p><input type="checkbox"/> 24/7</p> <p><input type="checkbox"/> 8am – 4:30pm CST</p> <p><input type="checkbox"/> Other (complete below)</p> <p>Other: _____</p>
8.4	Delivery	
8.4.1	Proposed delivery timeframe for sensors and transmitters from the date of order.	<p>Average: _____ calendar days</p> <p>Maximum: _____ calendar days (Not to exceed 56)</p>
8.4.2	Proposed delivery timeframe for controller from the date of order.	<p>Average: _____ calendar days</p> <p>Maximum: _____ calendar days (Not to exceed 70)</p>