**This questionnaire is designed to provide critical information necessary for**

**Prozess Technologie scientists to evaluate an individual process analysis need and feasibility as well as to offer a specific application engineered solution.**

***Please fill in all gray boxes below.***

**Sales Channel Partner Information:**

|  |  |
| --- | --- |
| **Representative Name** |  |
| **Company** |  |
| **Phone/Email** |  |
| **Questionnaire Date** |  |

**Customer/ Process Information:**

|  |  |
| --- | --- |
| **Company Name** |  |
| **Contact Name** |  |
| **Contact Email** |  |
| **Contact Phone** |  |
| **Project Location** |  |
| **Briefly describe the process** | *Examples: ethylene production, natural gas metering, sulfur recovery, turbine control, ambient air monitoring, etc.* |
| **Briefly describe the required measurement** | *Examples: Ethylene concentration prior to transfer manifold; Benzoic Acid in an aqueous stream; Total organics in a discharge pipe etc.* |

|  |  |
| --- | --- |
| **Is the above measurement being performed today?**  **If yes,**  **Is the measurement being done**  **Measurement method** | Yes 🗌 No 🗌 ***( Check one )***  ***(Check one)***  In an onsite laboratory 🗌 In an off-site laboratory 🗌 Online 🗌  ***Examples: GC, LC, FTIR, NIR, TOC etc.*** |

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| --- | --- |
| **What are the gaps in the current measurement solution / measurement improvement goals?** | *Examples:*  *Need to lower the cost of testing; Wants faster response with hydrocarbon speciation; In-line unattended monitoring is critical, etc.* |

1. **Target Compound Information**

Please list, in order of priority, the compound names, measurement ranges, accuracy requirements and precision requirements, for each compound/parameter to be measured.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Component Name** | **State Solid=S, Liquid =L Gas =G** | **Concentration Range** | **Required Measurement Accuracy (+/-)** | **Additional Notes** |
| *Example* |  |  |  |  |
| *CH4* | *G* | *0%-100%* | *1%* | Measurement time every 10 seconds |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
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|  |  |  |  |  |

1. **Background Matrix**

Please list the compound names and the expected minimum and maximum concentration values that may exist in the sample stream with the target compounds to be measured.

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| --- | --- | --- | --- |
| **Component Name** | **State**  **Solid=S, Liquid =L Gas =G** | **Concentration Range** | **Additional Notes** |
| *Example* |  |  |  |
| *Propane* | *G* | *6% to 8%* | In stream during first hour of process |
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|  |  |  |  |
|  |  |  |  |
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1. **Sampling Conditions**

Please describe the condition under which the samples will be measured.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Parameter** | ***Units*** | **Nominal** | **Minimum** | **Maximum** |
| ***Example*** | ***⭘C*** | ***200*** | ***180*** | ***220*** |
| **Sample Temperature** |  |  |  |  |
| ***Example*** | ***KPSI*** | ***35*** | ***30*** | ***40*** |
| **Sample Pressure** |  |  |  |  |
| ***Example*** | ***Liters/Min*** | ***50*** | ***48*** | ***55*** |
| **Sample Flow Rate** |  |  |  |  |

1. **Sampling Interface**

Please describe the process interface where the measurement sampling is likely to take place.

|  |  |
| --- | --- |
| **Parameter** | **Units** |
| ***Example*** | ***Feed Hopper*** |
| **Process Interface Location** |  |
| ***Example*** | ***3.5 inch pipe*** |
| **Process Interface Dimension** |  |
| ***Example*** | ***316 Stainless*** |
| **Process Interface Material** |  |

1. **Environmental**

Please describe the physical environment in which the sample will be measured

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | ***Units*** | **Nominal** | **Minimum** | **Maximum** |
| ***Example*** | ***⭘C*** | ***200*** | ***180*** | ***220*** |
| **Ambient Temperature** |  |  |  |  |

|  |  |
| --- | --- |
| ***Example: Direct sunlight; high vibration; excessive humidity etc.*** | |
| **Extreme Conditions** |  |

|  |  |
| --- | --- |
| **Other known conditions that may effect the measurement** |  |

1. **Communication and Data Interface**. Please provide the following information.

|  |
| --- |
| ***Example: Require measurement of the Benzoic Acid concentration every 5 minutes*** |

|  |  |
| --- | --- |
| **What is the desired measurement update rate?** |  |
|  |  |
| **What is the desired communication protocol?** | **Check all that apply**  OPC-UA 🗌 Ethernet/IP 🗌 Modbus 🗌  Other 🗌 Please describe : |

1. **Power requirements (Check all that apply)**

What are the power requirements for implementation?

|  |  |  |  |
| --- | --- | --- | --- |
| 110VAC 🗌 | 240-260VAC 🗌 | 24VDC 🗌 | Other: |

1. **Compliance or operational standards (Check all that apply)**

What hazard compliance or operational compliance standards must be met to perform the process measurement.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Class 1 Div 1 🗌 | Class 1 Div 2 🗌 | NEMA4X 🗌 | ATEX 🗌 | CE 🗌 | CSA 🗌 | XProof 🗌 |

|  |  |
| --- | --- |
| Other 🗌 | Other 🗌 |

1. **Additional Information.** Please indicate below.

|  |
| --- |
|  |

When this questionnaire is completed, please scan the completed document and forward to:

[Revealyourapps@prozesstech.com](mailto:Revealyourapps@prozesstech.com).