



Division of Garner Industries
 7201 No. 98th Street P.O. Box 29709
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Application Worksheet for Particulate Monitoring

*First Name: _____ *Company: _____

*Last Name: _____ *Job Title: _____

*Address: _____ *Email: _____

*City: _____ *Phone: _____

*State/Province: _____ *Zip Code: _____

*Application Name: _____

*Installation Location (same or other): _____

Comments: _____

General Information

1) Application (choose one):

- | | | |
|---|---|---|
| <input type="checkbox"/> Particulate Monitoring | <input type="checkbox"/> Filter Leak Detection | <input type="checkbox"/> Filter Control & Diagnostics |
| <input type="checkbox"/> Pressure Monitoring | <input type="checkbox"/> Liquid Mist Monitoring | <input type="checkbox"/> Powder Flow Monitoring |
| <input type="checkbox"/> Ambient Dust Detection | <input type="checkbox"/> Other (specify): _____ | |

2) Industry (choose one):

- | | | | |
|---|---|---------------------------------------|-----------------------------------|
| <input type="checkbox"/> Power | <input type="checkbox"/> Cement | <input type="checkbox"/> Steel | <input type="checkbox"/> Chemical |
| <input type="checkbox"/> Carbon Black | <input type="checkbox"/> Pharmaceutical | <input type="checkbox"/> Foundries | <input type="checkbox"/> Minerals |
| <input type="checkbox"/> Aluminum | <input type="checkbox"/> Incineration | <input type="checkbox"/> Food & Dairy | <input type="checkbox"/> Wood |
| <input type="checkbox"/> Other (specify): _____ | | | |

3) Process (choose one):

- | | | | |
|---|--|---|----------------------------------|
| <input type="checkbox"/> Stack | <input type="checkbox"/> Baghouse | <input type="checkbox"/> Cartridge Filter | <input type="checkbox"/> Cyclone |
| <input type="checkbox"/> Flow Pipe/Tube | <input type="checkbox"/> Mist Eliminator | <input type="checkbox"/> Wet Scrubber | |
| <input type="checkbox"/> Other (specify): _____ | | | |

4) Upstream Processes (choose one):

- | | | | |
|---|----------------------------------|--|---|
| <input type="checkbox"/> Kiln | <input type="checkbox"/> Dryer | <input type="checkbox"/> Boiler | <input type="checkbox"/> Scrubber |
| <input type="checkbox"/> ESP | <input type="checkbox"/> Cyclone | <input type="checkbox"/> Process ventilation | <input type="checkbox"/> Plant fume or dust hoods |
| <input type="checkbox"/> Other (specify): _____ | | | |

5) Is process critical: Yes No

6) If Yes, describe how/why: _____



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7) Intended purpose of the device (choose one):
 Process Control Environmental Compliance Maintenance
 Combination Other (specify): _____

8) Primary output of device (choose one):
 Alarm Trending signal (4-20mA) Measurement signal (4-20mA)

9) Auxiliary inputs required: _____

10) Field bus and communications:
 None Modbus RTU (RS-485) Modbus TCP Ethernet
 Ethernet IP DeviceNet Profibus
 Other please specify: _____

11) Is PC software required: Yes No

12) Primary use of PC software (choose one):
 Instrument Setup Data Logging Process Analysis Combination HMI/SCADA

13) Is report generation required: Yes No

14) Regulations (choose one):
 EPA ISO 9000 OSHA None
 Other: _____

15) Date device required to be installed: _____

16) Number of devices required: _____

17) Project stage (choose one):
 Planning Evaluation Budgeted None at this time

Installation

1) Input power:
 115VAC 220VAC 24VDC Loop Powered

2) Location:
 Indoors Outdoors

3) Sensor mounting:
 Quick clamp (Tri-Clamp) Thread (NPT) Flange (ANSI)
 Other (specify): _____

4) Sensor materials of construction:
 316 stainless steel Hastelloy Other (specify): _____

5) Area classification in pipe/duct:
 Ordinary/General Purpose
 Hazardous (Specify Class, Division and Groups or Zones for ATEX): _____



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6) Area classification outside pipe/duct:

- Ordinary/General Purpose
 Hazardous (Specify Class, Division and Groups or Zones for ATEX): _____

Process Conditions

- 1) Process temperature: (Normal) _____ °F _____ °C
 Process temperature: (High) _____ °F _____ °C
- 2) Process pressure (Normal): _____ Inches WC _____ PSI
 Process pressure (High): _____ Inches WC _____ PSI
- 3) Does process contain moisture: Yes No
- 4) Does process contain corrosives: Yes No
- 5) Duct/pipe ID: _____ Inches _____ cm
- 6) Duct/pipe material:
 Carbon Steel Stainless Steel Hastelloy Fiberglass
 Other (specify): _____
- 7) Does duct/pipe have insulation: Yes No
 Duct insulation thickness: _____ Inches _____ cm Internal External
- 8) Process gas composition: _____

Particulate Details

- 1) Name: _____

- 2) Type:
 Fine particulate (dust) Powder Granular
 Liquid mist droplets only Combined fine particles and mist
- 3) Characteristics (check all that apply):
 Dry Moist Wet Conductive Non-conductive
 Other (specify): _____
- 4) Approximate particulate concentration: _____ mg/m3 _____ gr/dscf
- 5) Average particle size: _____ microns



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Fabric Filter Details

- 1) Air volume: _____CFM _____m3/hr
- 2) Number of compartments: _____
- 3) Number of rows: _____
- 4) Type of filter cleaning:
 - Pulse Jet
 - Reverse Air
 - Shaker
 - Other
- 5) If pulse jet, type of solenoids: Pilot Integral
- 6) If pulse jet, number of pulse tanks per compartment: _____
- 7) Type of filter media: _____
- 8) How often is filter media changed: _____
- 9) Manufacturer, model and age: _____