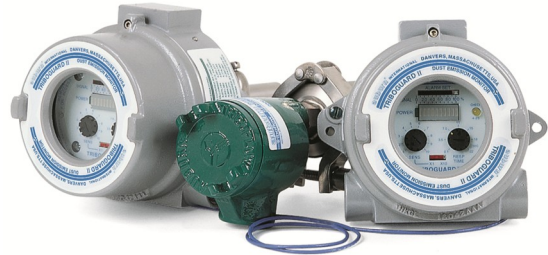




**TRIBO.guard II Model 4002 Dust Monitor**

- Continuous 4-20mA output and 0-100% LED bar graph
- Remote or integral sensor available
- Easy-to-use controls with standard window enclosure
- Optional *TRIBO.prevent* with Dual-Level Alarms
- Optional *TRIBO.trac* Leak Locator
- C E Approved

The 4002 Dust Monitor continuously monitors dust in exhaust ducts to detect filter failures. The 4002 detects changes in the collector's exhaust dust levels and warns of impending failure before emissions become visible. Continuous analog output is linked to dataloggers or other devices, such as PLCs, to record emissions levels, pinpoint maintenance problems, or document Clean Air compliance.



The 4002 monitors are also used to quickly locate and pinpoint dust collector leaks by row or compartment from a remote location when linked with our proprietary *TRIBO.trac* Leak Locator System. Used with Auburn's *TRIBO.prevent* Dual-Level Alarm System, the 4002 provides both early warning and high level (reportable incident) alarms.

Model 4002 monitors are available in an integral sensor configuration with a NEMA 4 enclosure or in a remote sensor configuration with a NEMA 4/7/9 electronics enclosure for high temperature applications with a NEMA 4X remote sensor enclosure.

*TRIBO.guard* monitors are field proven with thousands in service today. All *TRIBO.series* dust detectors incorporate triboelectric technology, developed exclusively by Auburn over 25 year ago. All Auburn products have been updated and improved to address more challenging dust collector maintenance and performance requirements appearing in virtually every materials manufacturing industry today.

**Call for more information or go to [www.auburnsys.com](http://www.auburnsys.com).**

**Typical Applications**

**Dust Emissions Monitoring**

Bag Leak Detection	Fabric Filter Baghouses
Cartridge Collectors	Dust Collector Maintenance
Cyclone Overflow	Isolate Bag Leak Location
EPA/MACT Compliance	Bin Vent/Nuisance Collectors
Indoor Fugitive Dust	Positive Pressure Baghouses
Spray/Fluid Bed Dryers	Title V/CAM Compliance

**Process Applications**

Air Slide Flow Monitoring	Lime & Powder Injection
Catalyst Feed Injection	Activated Carbon Injection
Cyclone Flow and Overflow	Pneumatic Conveying
Flow/No Flow Detection	Screw Conveyor Flow
Fly Ash Handling Systems	Particle Flow Velocity
Gravity Feed Monitoring	Vacuum Systems

**Industries Served**

Agriculture	Battery	Food	Hazardous	Nutraceutical	Steel
Aluminum	Carbon Black	Foundry	Incineration	Paper	Tires/Rubber
Asphalt	Cement	Furniture	Metals	Pharmaceutical	Tobacco
Automotive	Chemical	Glass	Mineral	Power	Wood



DC-coupled circuitry for optimum response and linear correlation over the entire operating range.

<b>4002 ELECTRONICS SPECIFICATIONS</b>	
<b>Electronic Enclosure</b>	NEMA 4 rating (Integral sensor); NEMA 4/7/9 rating (Remote sensor)
<b>Power</b>	105-130 VAC (210-260 VAC or 10-32 VDC optional), 50/60 Hz
<b>Power Required</b>	5 Watts maximum load
<b>Operating Temperature</b>	20° to 140°F (-30° to 60°C)
<b>Humidity Range</b>	0 to 95% relative; non-condensing
<b>Hazardous Rating</b>	Designed for Class I & II; Div. 1 & 2; Group B, C, D, E, F & G.
<b>Sensitivity Range</b>	Adjustable 100-1 range; 0.0005gr/dscf (1 mg/m3) typical detection
<b>Sensitivity Setpoint</b>	Baseline level setting indicated by first segment of LED bar graph
<b>Smoothing</b>	Adjustable from 0.1 to 22 seconds
<b>Output</b>	4-20 mA non-isolated, 500 Ohm loop maximum; 10 segment LED bar graph (0-100%)
<b>Approvals</b>	CE approved.
<b>4002 SENSOR SPECIFICATIONS</b>	
<b>Remote Sensor Enclosure</b>	NEMA 4X
<b>Wetted Metal Parts</b>	Probe - 316 Stainless Steel All others - 303 Stainless Steel minimum grade
<b>Insulation</b>	Extended High Performance (PFA)- Standard, -40° to 475°F (-40° to 240°C) Ceramic (High Temperature or Pressure) -40° to 1000°F (-40° to 540°C) Consult factory or your local representative for proper recommendations
<b>Probe Length</b>	Specify to reach approximately mid-duct or further
<b>Installation</b>	Weld the supplied fitting into the pipe or duct and insert sensor
<b>Remote Sensor Cable</b>	Special coaxial cable Temperature range: -60° to 400° F (-50° to 200° C) Maximum distance: 300 ft.
<b>Wiring Connections</b>	¾ inch NPT female conduit fitting
<b>Pipe/Duct Connections</b>	½ inch NPT male fitting or 1" quick release ferrule
<b>Remote Sensor Assembly</b>	Quick release or ½" NPT mounting and extended PFA insulator, usable in gas streams to 475°F (240°C). NEMA 4X enclosure.
<b>Options</b>	Ceramic insulator, usable in gas streams to 1,000°F (540°C). Air purge*.

\* Air purge provides annular purge around the insulator to prevent conductive bridging of the probe to the duct wall; consult the factory for proper application of air purge.

We are confident we can satisfy your monitoring application or technical support needs. For additional information or to request a quote, please contact us or visit [www.auburnsys.com](http://www.auburnsys.com).

**Manufacturer's Rep:**