



Reliable and Accurate Continuous Dust Emission Monitor

The wide use of **Triboflow**[®] Broken Bag Detectors and Continuous Emission Monitors demonstrates the effectiveness of triboelectric technology as a reliable, maintenance-free method for monitoring all types of dust collection systems.

Auburn has pioneered the design and application of this unique technology and provides the Model 2602 for continuous monitoring and recording of particulate emissions.

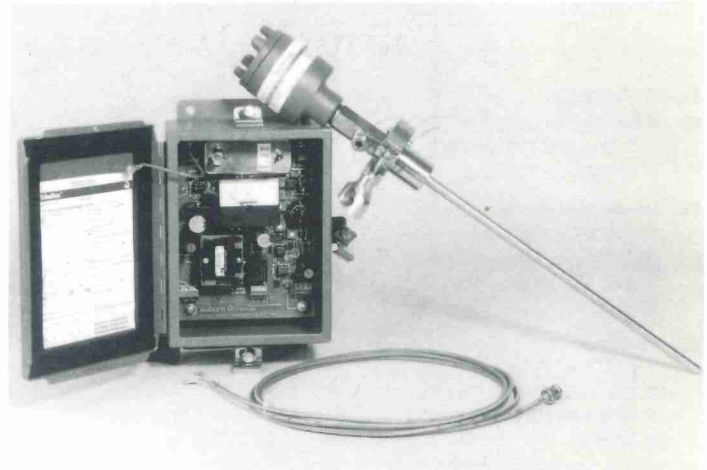
The **Triboflow** Model 2602 has proven to be extremely sensitive and repeatable when correlated to EPA method 5 and 17 mass emissions testing. This is due to its inherently reliable principle of operation. As particulate emissions occur, particles collide with the probe and a charge transfer occurs (The Triboelectric Effect). The continuous flow of particles produces a current which is proportional to the particulate flow rate. Any slight change in the particulate rate is indicated by the 0-100% meter, the 4-20mA or 0-10V analog output and the adjustable alarm contact.

Unlike unreliable optical methods that generate false signals and require frequent cleaning and alignment, **Triboflow** has no moving parts and is virtually maintenance free.

The universally applicable **Triboflow** Model 2602 is suitable for high or low dust loading. It can be used as a maintenance tool to detect filter failures, a performance monitor to trend dust emissions, or as a device to maintain and meet operating permit requirements.

Triboflow

- No lenses to align or clean
- Detects Concentrations as low as .0005 gr/dscf
- 1,000,000 to 1 Sensitivity Range
- Detects Micron Size Particles and Larger



SPECIFICATIONS:

SENSOR:

- Temperature Range: - 40 to 300°F – Teflon Insulation (Standard)
- 40 to 450°F – Extended High Performance (Optional)
- 40 to 1000°F – Ceramic Insulation (Optional)
- Pressure Range: 30 psi (Standard), 2,000 psi (Optional)
- Wetted Metal Parts: 316 Stainless Steel (Standard)
- Tungsten Carbide or Inconel (Optional)
- Insertion Length: 1/2 inch (Standard)
- 3, 6, 12, 18, 30, 36 inch (Additional)
- Other (Special)
- Enclosure: NEMA 4X (Standard)
- Hazardous Rating: Designed Intrinsically Safe for Class I, II, III in Division 1 & 2, Groups A, B, C, D, E, F, G

ELECTRONICS:

- Temperature Range: 0 to 120°F (Operating)
- 40 to 130°F (Storage)
- Humidity Range: 0 to 95% Relative Non-Condensing
- Outputs: 4-20 mA Non- isolated (500 Ω Loop Max)
- or 0-10V (Standard)
- 0-100% Meter (Standard)
- Relay Contacts: SPDT 5 A @ 28 VDC or 115 VAC Resistive (adjustable for threshold detection)
- Power: 105 to 130 VAC 50/60 Hz (Standard)
- 210 to 260 VAC 50/60 Hz (Optional)
- 8 to 32 VDC (Optional)
- 5 Watts Maximum Load
- Response Time: (Maximum Input Change) .5 to 30 Seconds, Customer Adjustable
- Enclosure: NEMA 4 (Standard)
- NEMA 4X, 7/9 (Optional)

CONNECTIONS:

- Process/Sensor: 1/2 inch NPT Male Fitting or Quick Release Clamp
- Sensor/Electronics: Special Low Noise Coax Cable 300 feet Max.
- Cable Temperature Range: - 60 to 400°F (Standard)
- Cable above 400°F - Contact Factory

INSTALLATION:

Weld a half-coupling or the quick release ferrule over a hole in the side of the pipe or duct. Screw in or clamp the sensor in place. (Please refer to manual for details.)

* Covered by one or more of the following patents: 4,063,153, 4,074,184, 4,291,273, 4,288,741, 4,631,482, 4,619,145, 4,714,890, 4,904,944, 4,774,453, 5,054,325, 5,095,275 Product also covered by patents other than the United States.