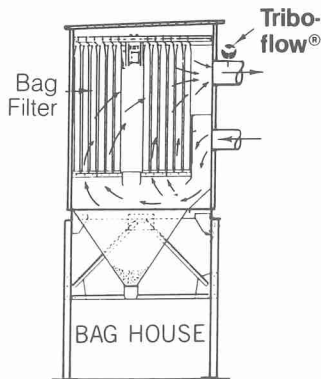
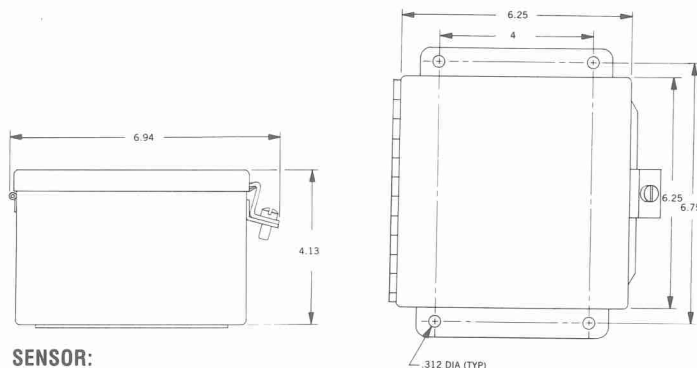
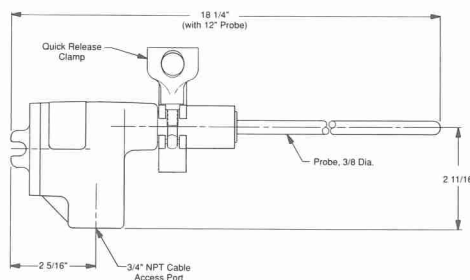




## Reliable Broken Bag Detection — Triboelectrically



### SPECIFICATIONS:



### SENSOR:

Temperature Range: - 40 to 300°F—Teflon Insulation (Standard)  
- 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 or 18 inch (Additional)  
Other (Special)

Hazardous Rating: Intrinsically Safe for Class I, II, III in  
Division 1 & 2, Groups A, B, C, D, E, F, G  
(FM and BVS Approved)

Enclosure: NEMA 4X (Standard)

### ELECTRONICS:

Temperature Range: - 10 to 145°F (Operating)  
- 40 to 160°F (Storage)

Humidity Range: 0 to 95% Relative Non-Condensing

Relay Contacts: DPDT 5 A @ 28 VDC or 115 VAC Resistive

Power: 105 to 130 VAC 50/60 Hz (Standard)

210 to 260 VAC 50/60 Hz (Optional)

5 Watts Maximum Load

Response Time: (Maximum Input Change) .5 to 30 Seconds,  
Customer Adjustable

Enclosure: NEMA 12 (Standard)  
NEMA 4,7/9 (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.)

Maintenance free, low-cost and reliable detection of bag rupture and filter failure is now available with the **Triboflow**<sup>®</sup> Model 2240-2 Broken Bag Detector. Providing accurate monitoring of filter outlets for break-through detection, the Model 2240-2 utilizes Auburn's unique triboelectric technology to monitor baghouse and filter outlets. The friction of particles which collide with **Triboflow**'s probe transfers a measurable charge which the Model 2240-2 monitors against a preset norm. Any significant increase in the normal signal is immediately detected by **Triboflow**, preventing product loss, downtime and atmospheric contamination.\*

This principle of operation permits **Triboflow** to directly detect tears, ruptures, or failures in bag houses or filters quickly and more accurately than any available device. Additionally, **Triboflow**'s alarm time delay feature prevents false signals due to normal dust fluctuations and bag cleaning. **Triboflow** sensors can easily be installed in hazardous locations, have no moving parts, are virtually maintenance free, and have no lenses to clean. The Factory Mutual (FM) approved, intrinsically safe **Triboflow** is also available with an analog output proportional to the particulate rate.

\*For analog output refer to Model 2602 Dust Emission Meter.

### Triboflow Advantages

- No lenses to align or clean
- Sensitivity Range of 1000 to 1
- Detects concentrations as low as .0005 gr/DSCF
- Detects micron size particles and larger

\*Patents pending