



Tribosentry shown with optional quick release.

### TRIBOSENTRY FEATURES

- Limited feature bag leak detection
- Low cost
- 5A SPDT relay

### A DEPENDABLE SOLUTION

The Tribosentry (Model 2403) is a simplified triboelectric device designed to detect failures of dust collector bags and filters. Offered at low cost, Tribosentry justifies bag leak detection for even the smallest nuisance-type collectors. With the same sensitivity level as our more sophisticated Triboguard monitors, the Tribosentry maintains Auburn's long-standing reliability and simplicity.

The Tribosentry uses the original triboelectric technology, introduced by Auburn nearly twenty-five years ago. As a filter failure occurs, dust particles collide with the Tribosentry probe, generating a charge transfer. This is also referred to as frictional electrification. The Tribosentry detects the signal created by the onset of a bag leak and activates a relay contact, initiating an alarm or operational function. Unlike optical devices that rely on clean, aligned lenses and the indirect measurement of light transmission, Tribosentry is a virtually maintenance-free, direct method of bag leak detection. Thus, failures are detected promptly and reliably.

Tribosentry is an inexpensive solution to reduce clean-up costs and ensure environmental compliance. Contact Auburn for information about Tribosentry and Auburn's other triboelectric bag leak detection products.

### SPECIFICATIONS

#### ELECTRONICS SPECIFICATIONS

DC-coupled circuitry for optimum response and linear correlation of output over entire operating range of equipment

<b>Enclosure</b>	NEMA 4/7/9
<b>Hazardous Rating</b>	Designed intrinsically safe Designed for Class I, II, III Division 1, 2, Groups B, C, D, E, F, G. CSA Approval
<b>Humidity Range</b>	0 to 95% Relative Non-Condensing
<b>Power</b>	105 to 130 VAC 50/60 Hz (Standard) 210 to 260 VAC 50/60 Hz (Optional) 10 to 32 VDC (Optional) 5 Watt Maximum Load
<b>Relay Contacts</b>	SPDT 5A @ 28VDC or 250VAC 100VA
<b>Sensitivity Range</b>	Adjustable 100 to 1 range; 0.005gr/dscf (10mg/m <sup>3</sup> ) typical minimum detection
<b>Smoothing Time</b>	.5 to 20 seconds, Customer Adjustable
<b>Temperature Range</b>	-10° to 145°F (23° to 63°C) Operating -40° to 160°F (-40° to 71°C) Storage

#### SENSOR SPECIFICATIONS

<b>Sensor Probe</b>	316 Stainless Steel (Standard)
<b>Other Wetted Parts</b>	303 Stainless Steel minimum grade
<b>Insertion Length</b>	3, 6, 12, 18, 30 inch (7.6, 15.2, 30.5, 45.7, 76.2 cm) Custom lengths up to 30"
<b>Pressure Range</b>	30 psi (2 bar) Standard For pressures above 30 psi, call for other models.
<b>Temperature Range</b>	-40° to 145°F (-40° to 63°C) PFA Insulated (Standard) For temperatures above 150°F, call for other models.

#### CONNECTIONS

<b>Power/Relay</b>	¾ inch NPT Female Conduit Fitting
<b>Process/Sensor</b>	½ inch NPT Male Fitting or Quick Release Fitting

#### INSTALLATION

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

