

TRIBO.guard™

Trouble-Free Bag Leak Detection The First ... and Still ... The Best

MODEL 4001

- Economic bag leak detection
- Easy-to-use tri-color LED display
- 5A SPDT relay output
- Remote or integral sensor option
- Adjustable alarm set point and time delay
- Reliable Flow Detection Option (4011)

Extremely rugged and reliable, the 4001 Bag Leak Detector monitors the exhaust ducts of dust collectors. Once configured to measure normal (baseline) leakage inherent with all dust collectors, TRIBO.guard senses the dust level in collector exhaust air and compares it with an adjustable set point. Through the relay output, the detector can sound an alarm if emissions increase beyond an acceptable level. The 4011 is a reliable flow/no flow detector used to monitor the flow of dry solids in bulk handling and pneumatic conveying systems.

TRIBO.guard Detectors use the original triboelectric technology, introduced by Auburn nearly twenty-five years ago. The detectors measure triboelectricity (also referred to as frictional electrification), an electric charge transfer which results when dust particles collide with the sensor probe. Upon detecting the signal created by the onset of a bag leak, TRIBO.guard Detectors activate a relay contact, initiating an alarm or operational function. Unlike optical devices that rely on clean, aligned lenses and indirect measurement of light transmission, TRIBO.guard Bag Leak Detectors are a virtually maintenance-free, direct method of dust collector leak detection. Auburn's proprietary TRIBO.series provides the most reliable, repeatable, and linear bag leak detection systems available today.

TRIBO.guard Detectors are available with an integral sensor configuration in a NEMA 4 enclosure or with a remote sensor configuration in a NEMA 4/7/9 electronics enclosure and NEMA 4X sensor enclosure. An optional window front allows personnel to check performance without opening the enclosure.



TRIBO.series™ Products and Services

TRIBO.series dust detectors incorporate triboelectric technology, developed exclusively by Auburn, now updated and improved to address more challenging dust collector maintenance and performance requirements appearing in, virtually, every materials manufacturing industry.

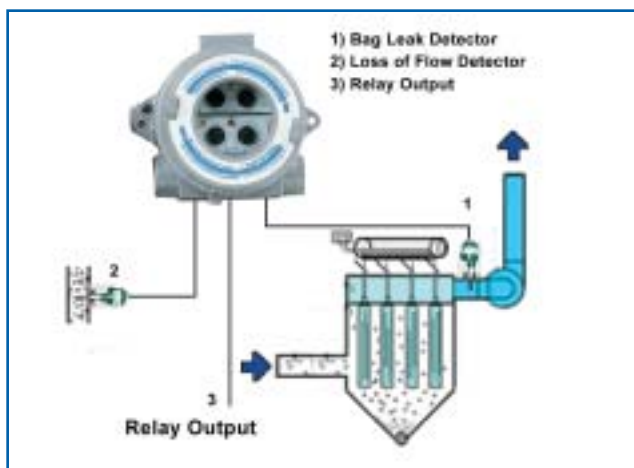
Call for more information or go to www.auburnsys.com

Today's standard for bag leak detection...

... from simple physics to useful technology



MODEL 4001



ELECTRONICS SPECIFICATIONS

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

OPERATING MODE	Available for emission or flow applications
ALARM THRESHOLD	Adjustable from 1 to 10 times baseline level
ALARM TIME DELAY	Adjustable ranges of 0-60 seconds, and 0-10 minutes
ELECTRONICS ENCLOSURE	NEMA 4 rating (Integral sensor), NEMA 4/7/9 rating (Remote sensor)
HAZARDOUS RATING	Designed for Class I & I, Div. 1 & 2, Group B,C,D,E,F&G. CE Approved.
HUMIDITY RANGE	0 to 95% relative, noncondensing
OUTPUT	SPDT, 5A @ 250 VAC, 30 VDC relay contact for alarm indication
POWER REQUIRED	105 to 130VAC (210 to 260VAC or 10-32VDC optional), 50/60 Hz, 5 Watts maximum load
SENSITIVITY RANGE	Adjustable 100 to 1 range; 0.0005gr/dscf (1 mg/m ³) typical detection
SENSITIVITY SETPOINT	Baseline level setting indicated by tri-color LED
SMOOTHING	Adjustable from 0.1 to 22 seconds
TEMPERATURE RANGE	-20° to 150°F (-30° to 65°C)

SENSOR SPECIFICATIONS

SENSOR PROBE	316 stainless steel (standard); other materials available. Specify length to reach or exceed mid-duct.
OTHER WETTED PARTS	303 Stainless Steel minimum grade
INSERTION LENGTH	3, 6, 12, 18, 30, 36 inch (7.6, 15.2, 30.5, 45.7, 76.2, 91.4 cm) Standard Integral - Custom lengths available up to 30" (76.2cm) Remote - Custom lengths available up to 36" (91.4cm)
INTEGRAL SENSOR ASSEMBLY	Quick release fitting with ferrule, clamp, gasket, and extended PFA insulator, usable in gas streams to 160°F (70°C).
REMOTE SENSOR ASSEMBLY	Quick release or ½" NPT mounting and extended PFA insulator, usable in gas streams to 450°F(235°C). NEMA 4X enclosure.
OPTIONS	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.