

BROKEN BAG DETECTORS

Tribo D2 Model 3400

IAC
INDUSTRIAL ACCESSORIES COMPANY

The Tribo D2 Model 4002 Two-wire (loop powered), 4-20 mA output, emissions monitor
The Tribo D2 combined with a Tribo DGD or PLC for power and signal processing is an economical monitoring solution for installations with large numbers of compartments. It is easy to install, simple to use, and requires no field set-up. When combined with the Tribo Trac Leak Locator or Tribo Prevent Dual Alarm System it will function as a monitoring system to provide useful information for collector maintenance management. In addition to emissions applications, the Tribo D2 is suitable for process flow applications.

Features Include:

- Two-wire, integral unit
- 24VDC "loop powered", no external power needed
- Easy to install, no sensitivity setting necessary
- 4-20 mA output, for PLC input
- Digitek Processing
- Low cost



The TRIBO.d2 Model 3400, two-wire dust monitor continuously monitors the clean air ducts of fabric (or cartridge) dust collectors to warn of filter medium malfunction and to track the relative effectiveness of the filter collection system over time. Power is provided by our TRIBO.dgd monitoring system or by direct connection with a PLC. The d2 senses dust levels in collector exhaust air and provides a continuous analog (4-20 mA) output. When used with TRIBO. prevent Dual-Level Alarm System an early warning and a high average emission (reportable incident) alarm levels can be established. It can also be used in combination with the TRIBO.trac Leak Locator System to automatically pinpoint dust collector leaks by row or compartment from a remote location.

All TRIBO.series monitors use the original triboelectric technology introduced more than twenty-five years ago. Triboelectric or frictional electrification monitors operate by monitoring the minute electrical current generated when particles impact the sensor, the electric charge processed through our proprietary, earth grounded circuit. This newest two-wire unit detects changes in the dust level of collector exhaust air to warn when a filter is failing before emissions

become visible. The continuous analog output provides information for PLCs, data loggers or other devices to record emissions levels, pinpoint maintenance problems, or document Clean Air compliance status. Unlike optical devices that rely on clean, aligned lenses and indirect measurement of light transmission, the TRIBO.d2 is a virtually maintenance-free, direct method of bag leak detection; failures are detected promptly and reliable.

TRIBO.d2 monitors are available in an integral sensor configuration with a NEMA 4 enclosure and can be mounted directly to a pipe or duct using either a ½"NPT coupling or a quick release design for easier maintenance.

TRIBO.DIGITEK PROCESSING

TRIBO.digitek is a 32 bit, floating point, processing method incorporated in TRIBO.d2represents the newest cutting-edge, triboelectric circuitry available in our industry today. The unique processing methods incorporated into the TRIBO.digitek series are designed specifically for high signal resolution, to provide wide dynamic range and system versatility with an output range at 8 decades or linear, customer selectable ranges. It is DC based, taking advantage of the most prominent triboelectric signal and combined with statistical AC signal adjustment when appropriate and requires no circuit changes when employing coated probes.

FOR MORE INFORMATION OR TO PLACE AN ORDER CONTACT IAC TODAY

PB203003

4800 Lamar Avenue / Mission, KS 66202 / USA 800.334.7431

www.iac-intl.com

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To expedite a quotation, please complete the following worksheet and fax it to 913-384-6577.

Model #: **3400 - 11**

ELECTRONICS

E1 Power _____
1. 12 to 32 VDC (at the unit)

E2 Output _____
1. 4-20 mA

SENSOR

S1 Probe Material _____
1. 316 Stainless Steel
9. Special

S2 Insulation _____
1. Teflon (TFE):
-40o to 300°F (-40o to 150°C); up to 30 psi
2. Teflon with Air Purge:
-40° to 300°F (-40o to 1504 ptC); up to 30 psi
3. Extended High Performance (PFA):
Standard -40° to 450°F (-40° to 2354 ptC);
up to 30 psi
4. Extended High Performance with Air Purge
9. Special

S3 Probe Insertion Length * _____
1. ½" (1.3cm) 5. 18" (45.7cm)
2. 3" (7.6cm) 6. 30" (76.2cm)
3. 6" (15.2cm) 4. 12" (30.5cm)
9. Special

*Probe length should reach approximately mid-duct, for large ducts (>72"), contact IAC for additional models.

S4 Sensor Mounting _____
Q. Quick Release V. Venturi (Fugitive Dust)
N. ½" Male NPT* S. Special

Extras
Manuals (one included) _____ @\$ _____ each
Stainless Steel Tags _____ @\$ _____ each
Set of Prints _____ @\$ _____ each

QUOTE FOR:
Name _____
Title _____
Electronics Base Company _____
Address _____
City _____ State _____ Zip _____
Telephone (_____) _____
Fax (_____) _____

PROCESS CONDITIONS APPLICATION CONCERN
Temperature _____ oF (Co) Fabric Filter Environmental
S1 Materials Duct ID _____ inches (cm) Cyclone Maintenance
Solid _____ Other Process/Lost
Product
Pressure _____ psig (bar)
S2 Insulation Velocity _____ f/s (m/s)
Gas _____
Comment _____

S3 Length ELECTRONICS
Enclosure _____ Integral NEMA 4
Hazardous Rating _____ Designed Intrinsically safe
Power _____ Two-Wire, isolated 4-20mA (12-32 VDC)
Operating Temperature _____ -20° to 150°F (-30°C to 55°C)
Sensitivity _____ Typical .0005gr/dscf (1mg/
m³) concentration
S4 Mounting detectable.

SENSOR
Probe Material _____ Probe-316 Stainless Steel.
Insertion Length _____ 3, 6, 12, 18, 30 inch (7.6, 15.2 30.5, 45.7, 76.2 cm)
up to 30"
Extras Custom Lengths _____
Wiring Connections _____ ¼ inch NPT Female Conduit Fitting
Pipe/Duct Connections _____ ½ inch NPT Male Fitting or Quick Release Fitting
Unit Price Installation _____ Weld the fitting into the pipe or duct, and insert sensor.

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