



# DUST DETECT 1000

## SINGLE PIECE TRIBOELECTRIC DUST DETECTOR

- Continuous Monitoring of Emissions Through an Air Filtration System
- Easy Setup
- Emission Readings are Averaged, not Smoothed, to Eliminate False Alarms
- Pre-Warning Indicator Alerts You to Potentially Hazardous Situations
- Instantaneous Alarm or One Minute Averaged Readings

The BinMaster Dust Detect 1000 is designed to monitor the flow of particulate emission through a filter in a dust collector or bag house.

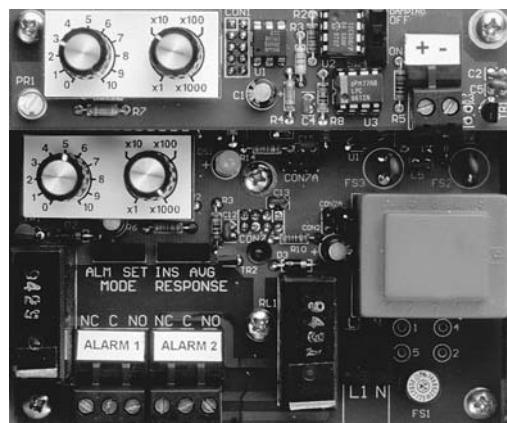
### PROCESS OF OPERATION

The emission level is measured on a logarithmic scale against the set reference point, which represents the average level of emission for a given environment. The alarm is switch selectable for instantaneous, or one minute averages. By averaging the emission readings rather than smoothing, the Dust Detect 1000 eliminates false readings commonly found with other dust monitoring systems. This system also provides you with a pre-warning alarm which alerts you to a potentially hazardous situation. The Dust Detect 1000 helps you to prevent the loss of valuable product, dramatically improve the safety of your plant, and virtually eliminate emission related shutdowns. With so many added features, the Dust Detect 1000 is the most accurate, dependable dust monitoring system available.

### TYPICAL APPLICATIONS

The Dust Detect 1000 installs easily in the exhaust duct of your air filtration system, with either a 3/4" or a 1 1/4" NPT mount. The unit may be used with several types of filtration systems, including bag, ceramic, and cartridge filters, or cyclones. Some common applications include:

Ferrous Metals	Cement/Aggregate	Rubber Compounding
Non-Ferrous Metals	Chemical Processing	Foundries
Mining and Minerals	Pharmaceuticals	Galvanizing
Pulp/Paper Processing	Feed/Grain Milling	Wood Processing
Food Processing	Textiles	Tobacco Processing
Plastics	Fertilizer	Battery Manufacturing



### DUST DETECT 1000 SPECIFICATIONS

Enclosure:	Die cast Aluminum, FDA approved powder coat
Power Requirement:	115 VAC, 230 VAC Optional 60/50 Hz
Operating Temperature:	-25° to +160°F (-32° to +71°C)
Stack Temperature:	250°F (107°C)
Conduit Connection:	3/4" NPT
Process Connection:	1 1/4" NPT
Output:	Two SPDT 5A relays (warning & alarm)
Alarm:	Dual alarm (alarm is 2x Pre-alarm) Switch selectable for instantaneous or one minute average
Sensitivity:	1mg/m (.0005 gr/SCF)
Sensor Rod:	316 Stainless Steel, 3, 6, & 12" standard, 1.5 - 36" custom lengths available

Specifications subject to change without notice



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