



Filter Leak Alarm AIM3000 continuous dust monitor is a

AIM3000 continuous dust monitor is an accurate dust concentration measuring system with advanced leak detection capabilities. It continuous real-time measurement and average analysis and recording of dust concentration and gives out early warning of leak for filters and process control. It can be used on all types of dust collectors/bag filters and has a special sensor designed for ESP (Electrostatic

Features & Benefits

AIM3000 Series

■ Continuously monitor and maintain filter or ESP efficiency

Continuous Dust Monitor

- Comply with US and International EPA regulations
- Simple absolute output or correlate to mg/m³ or g/ft³
- Prevent the escape of valuable or hazardous powders
- Low-cost switch with relay output only for leak alarm

Application for Dust-Collecting Equipment and Others:

Cement Factories

- For coal ash and other raw materials.
- For cement and concrete products.
- For kilos, AQC (Air-quality Control) systems, and other equipment.
- For sing- and fly ash.

Steel Plants

- For steel sintering.
- For casting.
- For coke ovens.
- For recycling-related facilities such as those for waste disposal of plastics.

Chemical Factories

- For canalization.
- For smoke removal.

Coal-fired Power Plants

- For coal prepare
- For ESP control.
- For fly ash

Waste incineration Plants

- For monitoring the environment.
- For incinerators.
- For fusion furnaces.
- For high-temperature incinerators used to cut emissions such as dioxins.

Rubber and Carbon Factories

- For monitoring of dust accumulation in ducts.
- For handing raw materials.

Fertilizers Plants

• For preventing mixture of fertilizers.

Spice and Paint Factories

• For traceability-related equipment.

Gas Extraction Equipment for Boilers

For generators

Other Dust-collecting Equipment



High performance

- Detects solid particles with diameters from 0.3µm to 100µm.
- Trend monitoring with 4-20mA output.
- Can be calibrated to concentration unit mg/m³.
- Two independent alarm relays for limit or logic configurations.
- Automatic drift compensation.
- High temperature sensor up to 1500°F (815°C).
- High-pressure application up to 20 MPa.
- Buildup on sensor almost has no affect to reading.
- Measurement not affected by particle color

Simple to use

- Requires no special training or skills.
- One touch calibration, quick and simple.
- No manual sensitivity adjustment required.
- LED display for measuring value and manual guide.
- Integral and remote system.
- Changeable probe length from 100 mm to 2000 mm.

Easy-Installation and Maintenance-Free

- Easily installed through NPT thread or flange
- No alignment required
- No moving parts to deteriorate or break
 down
- No routine cleaning or recalibration necessary.
- Ragged construction resists corrosion, vibration and abrasion.
- Usually do not need purging air





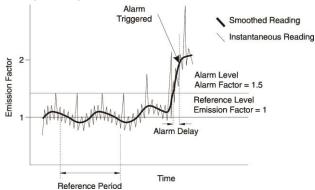


DUST GAS AIR



OPERATION PRINCIPLE

AIM3000 series monitors utilize special AC turboelectric measurement principle, the sensor signal comes not only from solid particles contacting the sensor rod but also from those passing through nearby. This technique is very sensitive for small concentration case, which enables the use of both bare and insolated probe. The fully insolated probe is suitable for high humidity gas steam as well as for applications with high conductivity dust loadings. It's suitable for corrosive gases or condensate and almost not affected by particle buildup on the probe.



SPECIFICATIONS

	AIM3000	AIM300S
Measuring range:	0.1mg/m³ to 1kg/m³	Same
Particle size:	0.3um min	Same
Relay Output:	2 std. (SPST, 5A@240VAC)	Same
4-20mA Output:	1 std. (Isolated, 12 bit)	Not available
Serial Port:	1 opt (RS485)	Same
Display:	3 digital 7seg LED	LED indicator
Enclosure:	NEMA 4X std., other opt	Same
Ranging:	Log or linear (Auto or manual)	Same
Data averaging:	Standard (user adjustable)	Not available
Output scaling:	To mg/m³ or gr/ft³	Not available
Temperature:	-13F to +160F (-25 to 70C)	Same

 Sensor:
 T31
 T32
 T33

 Length*:
 10, 18" std.

Material: 316SS & Peek 304SS with TFE Layer 316SS & Ceramic Mounting**: 3/4"NPT or BSP 1-1/2"NPT or BSP

90 to 240VAC, 50/60Hz or 24VDC

Same

P @ Temp: 13.8bar@232°C (200Psi@450°F) 13.8bar@815°C(200PSI@1500°F)

Housing: IP66

Cable***: 300' Max length, 450F Max temp

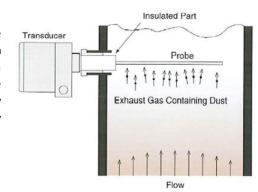
*Other Length Opt.

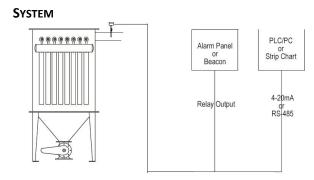
Power supply:

**Tri-Clamp or Flange opt

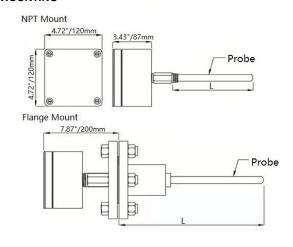
*** Remote system only

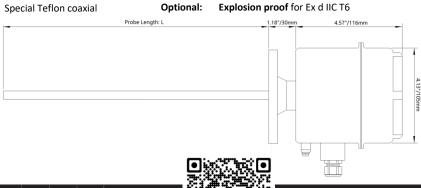
T34 Sensor for ESP only contact factory.





MOUNTING







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