

Triboelectric Dust Monitor Model BI 7000 Tribo



BI 7000 Tribo Dust Monitor is a single-point/basic functionality particulate monitor employing charge induction sensing for reliable continuous monitoring of particulate in stacks, ducts, and pipes. Applications include filter leak detection, cyclone overflow, and powder flow/no flow.

As particles flow near or around the electrically isolated sensing probe, minute charge is continuously induced into the probe. The charge flows through a measurement circuit to ground. The induced charge signal is digitally analyzed and processed to provide an output.

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Features:

- ❖ Direct measurement in exhaust flue gas flow – In situ
- ❖ Unit programmable in mg/m³ & mg/Nm³
- ❖ RS 485, supports MODBUS protocol
- ❖ Rugged design with no moving parts so low maintenance
- ❖ No manual adjustment / alignment required
- ❖ Automatic drift compensation
- ❖ Colour of particles will not affect the signal output
- ❖ Buildup of dust on the probe will not affect monitoring
- ❖ Vibration has no effect on the signal
- ❖ IP65 rating Enclosure

Technical Specification:

- ❖ Measuring Range : 0-1000 mg/m³
- ❖ Units of measurement : mg/m³, mg/Nm³
- ❖ Accuracy : ±2% FSD
- ❖ Resolution : 1mg/m³ display resolution
- ❖ Stack Temperature : -20° to +121°C
- ❖ Material of construction : SS 316
- ❖ Probe Insertion length : 305, 457, 609, 762, 914 mm
- ❖ Positioning : 90 degree to duct wall
- ❖ Power Supply : 24 VDC
- ❖ Output : 4 – 20 mA Analog output
- ❖ Digital Communication : RS 485, Modbus
- ❖ Mounting : Wall
- ❖ Electronic Unit Enclosure Rating : IP 65
- ❖ Cable Type : 3 core Interconnection Cable
- ❖ Ambient Temperature : -20 to 50° C
- ❖ Operating Humidity : 5 – 95%

Application:

- ❖ Bag Leak Detection
- ❖ Distillery
- ❖ Oil refinery
- ❖ Thermal Power Plants
- ❖ Zinc
- ❖ Boiler
- ❖ Aluminium
- ❖ Fertilizers
- ❖ Petrochemical
- ❖ Sugar
- ❖ Copper
- ❖ Common Hazardous Waste Incinerator
- ❖ Cement
- ❖ Iron & steel
- ❖ Power Plants
- ❖ Tannery
- ❖ Biomedical waste Incinerator

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