

Tribo Electric Dust Monitor BI 7020

Agasthya 2026 Series

**Auto-Purge Facility**

Automatically cleans probe, prevents dust buildup

**Direct Server Connectivity**

Enables remote monitoring and data access

**Zero-Maintenance Continuous Operation**

Continuous operation with minimal maintenance

**Component-Level Repairability**

Repairable components reduce downtime and costs

**24/7 Spares Availability**

Critical spares are available anytime for quick maintenance.

**NPL/TUV**

Certified for reliable, compliant performance

OVERVIEW

BI 7020 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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Optimized For Low Dust

In-situ Measurement



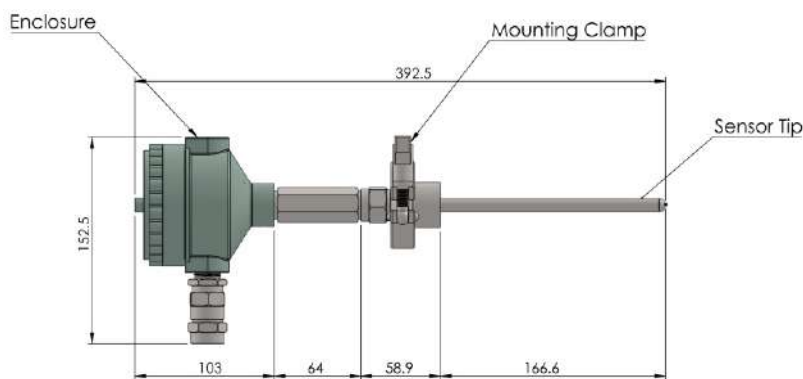
KEY FEATURES

- Direct measurement in exhaust flue gas flow – In situ
- Unit programmable in mg/m³ & mg/Nm³
- RS485, 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

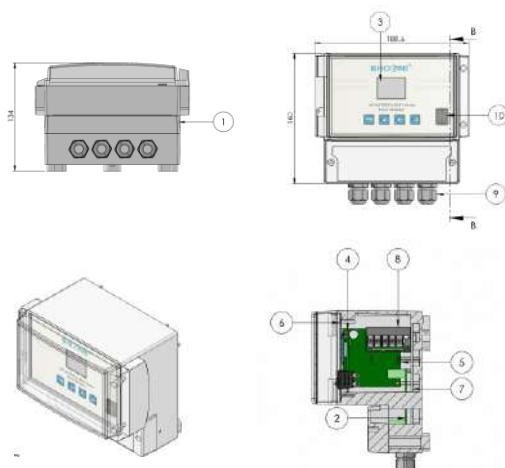
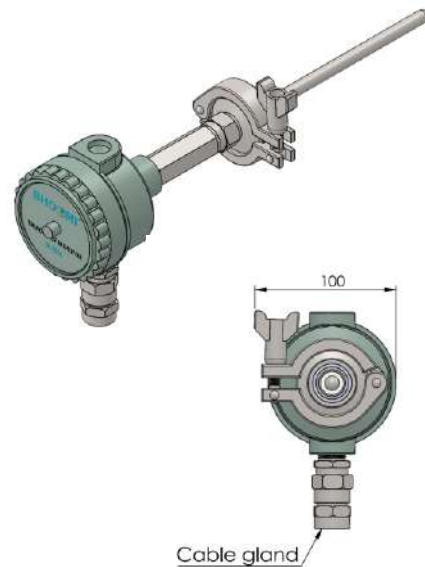
APPLICATIONS

- Thermal power plants
- Steel & metallurgical plants
- Cement plants
- Chemical & fertilizer plants
- Paper & pulp mills
- Waste incineration/waste-to-energy
- Mining & minerals
- Sponge iron plants
- Boilers & captive power units
- Process stacks
- DG sets

DIMENSION



Note: All dimensions are in mm



Sr.No	Part Name
1	Enclosure 188X160X134
2	Power supply card
3	TFT display
4	MCU card
5	HART card
6	Display mounting plate
7	Base Mounting plate
8	SMPS
9	Cable gland
10	Rocker switch

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TECHNICAL SPECIFICATIONS

Measuring range	0-1000 mg/m ³
Units of measurement	mg/m ³ , mg/Nm ³
Accuracy	±1% FSD
Resolution	0.1mg/m ³ display resolution
Stack temperature	-20° to 300°C
Material of construction	SS 316
Probe insertion length	305, 457, 609, 762, 914 mm (Customized length available)
Positioning	90 degree to duct wall

Power supply	24 VDC
Output	4 – 20 mA Analog output
Digital communication	RS485, Modbus
Mounting	Wall
Electronic unit enclosure rating	IP65
Cable type	3 core Interconnection cable
Ambient temperature	-20 to 50° C
Operating humidity	5 – 95%

ORDERING INFORMATION

Model Code	Option Code	Description
Power supply	1	24 VDC
	2	230 VAC
Sensor configuration	V1	Other
	V2	BH
Flange size	1	6 inch
	2	12 inch
	3	18 inch
	4	24 inch
	5	xx inch
Accessories	WA	With accessories
	OA	Without accessories
Purging	A	Without purging
	B	With purging
Weather protection	X	With canopy
	Y	Without canopy

Model Selection Example

BI7020-01-V1-2-WA-A-X

Where:

Code	Description
BI 7020	Triboelectric Dust Monitor
1	24 VDC
V1	Other
2	12 inch
WA	With accessories
A	Without purging
X	With canopy

Complete Description:

Triboelectric Dust Monitor, 24 VDC, other, 12 inch, With accessories, Without purging, With canopy

Tribo Electric Dust Monitor

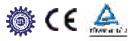
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In-situ Measurement



OUR NPL & TUV CERTIFIED PRODUCTS



Continuous Emission
Monitoring System
BI 7000



Online Stack
Opacity Dust Monitor
BI 7010



Online Stack
Flow Meter
BI 7300



Ambient Air Quality
Monitoring System
BI 7300

OUR OTHER GAS AND LIQUID ANALYZERS



Insitu Zirconia
Oxygen Analyzer
BI 2100, BI 2000



Portable Flue
Gas Analyzer
BI 1XX, BI 2XX



Process Gas
Analyzers
**BI 3XX, BI 4XX, BI 6XX,
BI 4XXX, BI 7400, BI 8000**



Renewable Energy
Gas Analyzers
BI 7100, BI 7110, BI 7120, BI 7130



Portable
Exhaust Gas Analyzer
BI Flexi Pro



Multiparameter Water Quality
Monitoring System
BI 1000



Water Sensors



Single & Dual
Channel Controllers
BI 131, BI 1310

Bhoomi Process Management Pvt. Ltd. (sister concern of Bhoomi Analyzers)

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