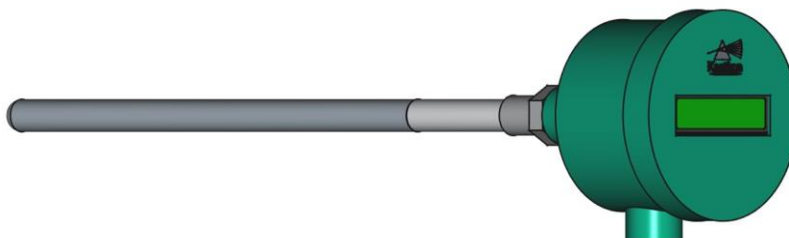


Triboelectric Dust Analyzer

Continuous Dust Monitoring



Overview

The Triboelectric Stack Dust Analyzer is designed for continuous monitoring of particulate emissions in industrial stacks and ducts. Based on the triboelectric effect, it detects charged particle interactions with the probe, providing real-time, accurate, and reliable measurement of dust concentrations.

Key Features

- Real-time monitoring of particulate matter
- Robust probe suitable for high-temperature stack conditions
- 4–20 mA and RS485 Modbus output for easy integration
- Compact and rugged design with Flameproof certified Encloser.
- Low maintenance, no moving parts
- (optional) User-friendly display and configuration interface

Applications

- Cement plants
- Power plants
- Steel and metallurgical industries
- Boilers and incinerators
- Continuous Emission Monitoring Systems (CEMS)
- Bag filter efficiency monitor

Technical Specifications

Parameter	Specification
Measurement Range	0–100/500 mg/m ³ (configurable)
Response Time	< 5 seconds
Accuracy	±5% of reading
Output	4–20 mA, RS485 (Modbus), optional relay
Power Supply	24 VDC / 230 VAC
Probe Length	1 m (customizable)
Operating Temperature	Up to 250 °C with insulation
Enclosure	Flameproof certified, Cast Aluminum,
Display	2x16 LCD / graphical display
Mounting	Flange or threaded connection

Ordering Information

Model: T-3

Probe Length Options: 0.5 m / 1 m / 1.5 m

Output Options: 4–20 mA / RS485 / Relay

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