

EnergyTech 301 is a low-cost dust monitor using well-proven technology providing accurate and rapid results.

EnergyTech 301 continuous dust monitor uses the well-proven tribo-electric sensor technology to directly measure mass particulate concentration by sensing the frictional charge created when particles collide with a conductor.

The advanced electronics of the EnergyTech 301 detect this signal and present it to the operator via RS485 or 4-20mA directly out from the sensor head. The EnergyTech 301 also features a built-in display for viewing live sensor data as well as for configuration and calibration. The measurement levels can be corrected to mg/m^3 via an integrated calibration function. The tribo-electric technique is extremely sensitive, capable of detecting dust concentrations of less than $1\text{mg}/\text{m}^3$ in small ducts.

Features and Benefits:

Minimal maintenance requirement, making it ideal for small duct sizes
A low installation cost makes this technology attractive for dust collector monitoring

No critical alignment and no optical surfaces to keep clean
This sensor is easy to install, only requiring a simple probe



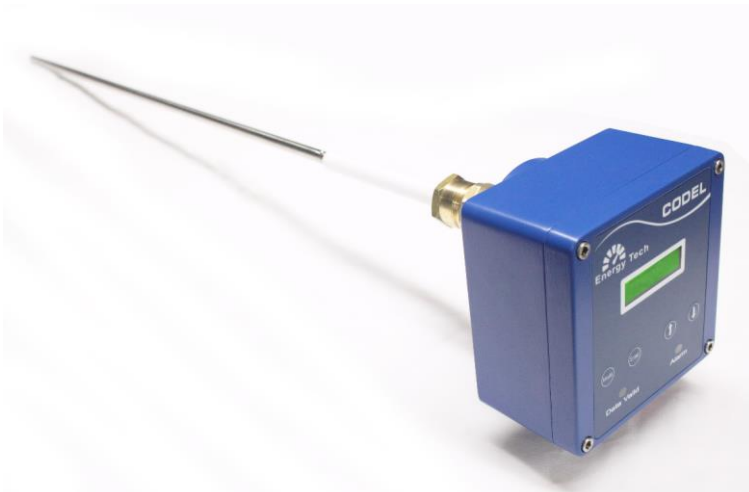
APPLICATIONS

- > Coal and Fuel-oil Fired Plants
- > Wood Fired Plants
- > Converter Plants
- > Pulp & Paper Plants
- > Processing Plants
- > Asphalt & Cement Plants
- > Any plant requiring dust monitoring
- > Baghouse

MONITORING SOLUTIONS

Complete source for all your Continuous Emissions Monitoring (CEMS) needs:

- > Both Dilution and Extraction CEMS systems
- > Data Acquisition Systems (DAS)
- > Flow Monitoring
- > Opacity Monitoring
- > Oxygen Monitoring Systems
- > Particulate (PM) Monitoring
- > Process Monitoring Systems



Specifications Sensor Unit

Operating Principle	Tribo Electric
Operating Range	0.07 to 6500mg/m ³ or 0-100%
Particle Size	0.1 to 100um
Gain	0.5 to1000
Resolution	0.01%
Response Time	1sec to 1 hr (operator selectable)
Alarm Level	Programmable by user
Probe Lengths	250, 500, 750 & 1000mm
Fuel Gas Temperature	0°C to +200°C
Ambient Temperature	-20°C to +55°C
Power Supply	85/265V AC
Construction	Aluminum casting, weatherproof to IP67 (NEMA 4)
Dimensions (mm)	H160 x W160 x D90
Mounting Arrangements	Supplied 1" BSP, 100mm Long Stub Pipe

Customer Interface

Analogue Outputs	4-20mA opto-isolated
Alarm Outputs	Alarm relay 2.5A at 24V
Digital Outputs	RS485 MODBUS Bi-Directional
Display	32 Character alpha-numeric back-lit LCD)
Keypad	4-key soft-touch entry

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