

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



ISO 14001:2015
Environmental Certification

www.codel.co.uk

EnergyTech 301 Dust Monitor

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 201 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/m3 via an integrated calibration function.

The tribo-electric technique is extreamly sensitive, capable of detecting dust concentrations of less than 1mg/m3 in small ducts

The EnergyTech 301 requires no critical alignment and has no optical surfaces to keep clean. The sensor is easy to install, requiring only a simple probe and is ideal for small duct sizes.

Minimal maintenance is required, infrequent probe cleaning and low installation costs make this technology extreamly attractive for cust collector monitoring.

Features and Benefits

- Direct sensing method, actual particulate concentration.
- Automated online zero and span checking facility.
- Integrated calibration function for mg/m3 output.
- Easy installation with minimal maintenance required.
- Adaptable, suitable for virtually all dust collectors.

Typical Applications

- Industrial Manufacturing
- Recycling Plants
- Chemical Manufacturing
- Mining Operations
- Power Plants
- Power Generation
- Recycling Plants
- Cement Plants
- Woodworking and Sawmills
- Dust Collectors
- Pharmaceutical
- Waste Management

Rugged & robust design developed for easy installation and maintenance





Technical Specification

Sensor Unit

Operating Principle	Tribo Electric
Operating Range	0.07 to 6500mg/m3 or 0 - 100%
Particle Size	0.1 to 100μm
Gain	0.5 to 1000
Resolution	0.01%
Response Time	1sec to 1hr (operator selectable
Alarm Level	Programmable by user
Probe Lengths	250, 500, 750 & 1000mm
Flue Gas Temperature	0°C to +200°C
Ambient Temperature	-20°C to +55°C
Power Supply	85-265V AC (24V version available
Construction	Powder coated aluminium casting, weatherproof to IP67 (NEMA 4)
Dimensions (mm)	H160 x W160 x D90
Mounting Arrangment	Supplied 1" BSP, 100mm Long Stub Pipe
Compliances	
EMC	89/336/EEC directive compliant
Low Voltage	73/23/EEC directive compliant
Customer Interface Analogue Outputs	4-20mA opto-isolated
Alarm Outputs	alarm relay 2.5A @ 24V
Digital Outputs	RS485 Modbus Bi-Directional
Display	32 Character alpha-numeric back-lit LCD)
Keypad	4-key soft-touch entry
Compliances Power	85-265V AC (24V version available



CODEL International LTD Unit 4 Station Road Bakewell, Derbyshire

DE45 1GE

Tel : +44 (0)1629 814351 Fax : +44 (0)1629 566307 Web : www.codel.co.uk

email : Sales@codel.co.uk



Distributor





