

Product Brochure

Triboelectric Range



A complete range of triboelectric monitors tailored for all your dust monitoring requirements.

ISO 9001:2015

Quality Certification

ISO 14001:2015

Environmental Certification

Monitoring Solutions

www.codel.co.uk

The DCEM6000 is CODEL's premium QAL1 triboelectric dust analyser, delivering the highest level of accuracy and compliance for industrial emissions monitoring. Designed for continuous, high-precision dust measurement, it provides operators with real-time data to ensure environmental compliance and optimise filtration efficiency.

Certified to both EN 15267-3 and EN 14181, the DCEM6000 meets the strictest regulatory standards, making it the ideal choice for industries with rigorous emissions control requirements. Its advanced tribo-electric technology offers superior sensitivity, allowing for the detection of even the smallest particulate levels, ensuring a cleaner, more efficient operation while minimising emissions.

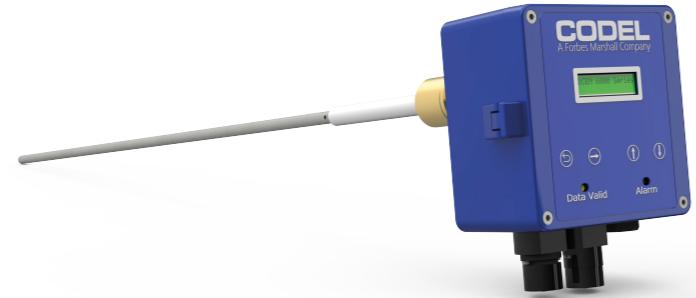
For industries demanding the highest performance, reliability, and compliance assurance, the DCEM6000 is the ultimate solution for dust monitoring and emissions control.

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.
- ▶ Certified to EN 14181 (QAL1)

Typical Applications

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



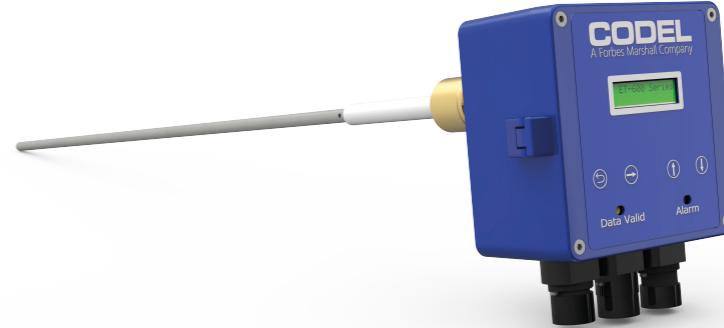
Operating Principle	Triboelectric
Certification	EN14181 (QAL1 0-7.5mg/m ³)
Operating Range	0 to 6500mg/m ³
Resolution	0.01%
Response Time	10 Seconds
Alarm Level	Programmable by user
Probe Lengths	250, 500, 750 & 1000mm
Flue Gas Temperature	0°C to +250°C (Option up to 600°C)
Ambient Temperature	-20°C to +50°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
Accuracy	+0.1%

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.
- ▶ Certified to EN 15859

Typical Applications

- ▶ Industrial Manufacturing
- ▶ Chemical Manufacturing
- ▶ Power Plants
- ▶ Recycling Plants
- ▶ Mining Operations
- ▶ Power Generation
- ▶ Cement Plants
- ▶ Dust Collectors
- ▶ Waste Management



Operating Principle	Triboelectric
Certification	EN15859 Filter Dust Monitor
Operating Range	0 to 6500mg/m ³
Resolution	0.01%
Response Time	10 Seconds
Alarm Level	Programmable by user
Probe Lengths	250, 500, 750 & 1000mm
Flue Gas Temperature	0°C to +250°C (Option up to 600°C)
Ambient Temperature	-20°C to +50°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
Accuracy	+0.1%

The EnergyTech 610 is CODEL's triboelectric leak detector, designed for industries that require early detection of filter bag leaks without the higher cost of premium systems. Featuring high-gain sensitivity, it can identify leaks at their earliest stage, allowing for proactive maintenance before a full bag failure occurs - reducing emissions, minimising material loss, and preventing costly downtime.

Unlike basic burst bag detectors, the EnergyTech 610 provides a more refined, high-precision measurement, giving operators the confidence to detect and address leaks sooner. Certified to EN15859, it also ensures compliance with environmental standards, making it a smart investment for industries looking to improve process control and regulatory adherence.

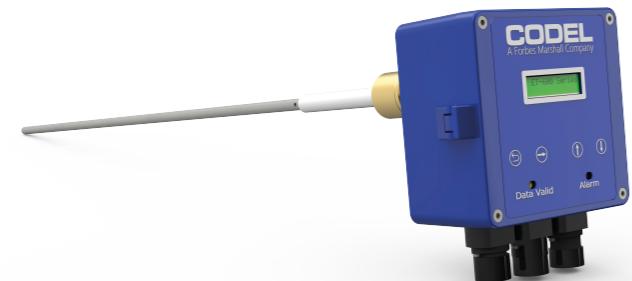
For those seeking greater accuracy and reliability than entry-level detectors but without the cost of high-end systems, the EnergyTech 610 is the perfect balance, offering advanced monitoring at an affordable price.

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.
- ▶ Certified to EN15859

Typical Applications

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



Operating Principle	Triboelectric
Certification	EN15859 Filter Leak Monitor
Operating Range	0 to 6500mg/m ³ or 0 - 100%
Resolution	0.01%
Response Time	10 Seconds
Alarm Level	Programmable by user
Probe Lengths	250, 500, 750 & 1000mm
Flue Gas Temperature	0°C to +250°C (Option up to 600°C)
Ambient Temperature	-20°C to +50°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 Arrangement	Supplied 1" BSP, 100mm Long Stub Pipe
Accuracy	+0.1%

The EnergyTech 300 Series is CODEL's dedicated burst bag detector, designed using proven triboelectric sensor technology to provide fast, effective detection of bag failures in dust collection systems.

Even minor bag ruptures or leaks can lead to hazardous dust emissions, compromising air quality, damaging equipment, and creating costly downtime. The EnergyTech 300 Series offers a simple yet highly dependable solution for identifying these failures as soon as they occur, allowing for rapid intervention before dust escapes into the workplace or environment. By monitoring for burst bags, waste materials are prevented from escaping, helping to maintain a cleaner process and minimising unnecessary material loss.

This not only helps to maintain compliance with environmental standards but also reduces downtime and ensures the smooth operation of industrial processes.

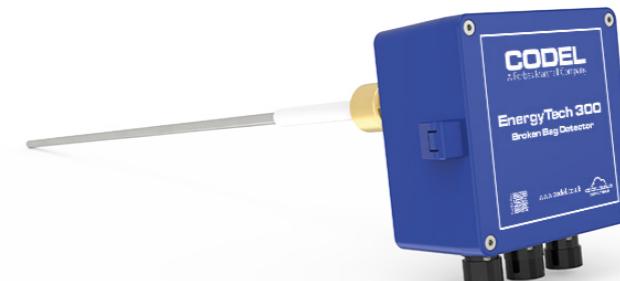
The EnergyTech 300 Series is built solely for burst bag detection making it an affordable solution for ensuring compliance, protecting assets, and maintaining a cleaner, safer work environment.

Features and Benefits

- ▶ Direct sensing method, actual particulate concentration.
- ▶ Easy installation with minimal maintenance required.

Typical Applications

- ▶ Industrial Manufacturing
- ▶ Chemical Manufacturing
- ▶ Power Plants
- ▶ Recycling Plants
- ▶ Mining Operations
- ▶ Power Generation
- ▶ Cement Plants
- ▶ Dust Collectors
- ▶ Waste Management



Operating Principle	Triboelectric
Operating Range	0 - 100%
Resolution	0.01%
Response Time	10 Seconds
Alarm Level	Programmable by user
Probe Lengths	250, 500, 750 & 1000mm
Flue Gas Temperature	0°C to +250°C
Ambient Temperature	-20°C to +50°C
Power Supply	24V
Construction	Powder coated aluminium casting, weatherproof to IP67 (NEMA 4)
Dimensions (mm)	H160 x W160 x D90
Mounting Arrangement	Supplied 1" BSP, 100mm Long Stub Pipe
Accuracy	+0.1%

Family Comparison

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Certification	DCEM6000	EnergyTech 600	EnergyTech 610	EnergyTech 300
EN 14181	✓	✗	✗	✗
EN 15859	✗	✓	✓	✗
Velocity Comp	✓	✓	✓	✗
High Temp	✓	✓	✓	✗
Measurement Unit				✗
mg/m ³	✓	✓	✗	✗
mg/Nm ³	✓	✓	✗	✗
MV	✓	✓	✓	✗
% Scale	✓	✓	✓	✓
System Checks				
Span Check	✓	✓	✓	✗
Zero Check	✓	✓	✓	✗
Inputs/Outputs				
RS485	✓	✓	✓	✓
4-20 mA	✓	✓	✓	✓
Digital Inputs	✓	✓	✓	✗
Realtime Data & Reporting Hub				
CODEL Cloud	✓	✓	✓	✓



Realtime data and Reporting hub

CODEL Cloud allows for realtime data whenever and wherever you need it.



Live Data Streaming

Harness the power of real-time data streaming to stay ahead of the curve. Our software enables live updates, ensuring you have Realtime instrument data at your fingertips, empowering you to make informed decisions instantaneously.



User-friendly Interface

Our intuitive and user-friendly interface makes navigating and utilizing the software a breeze. No need for extensive training – start extracting value from your data from day one.



Alert Notifications

Stay on top of critical events with customizable alerts. Set thresholds for key metrics, and receive notifications in real-time, allowing you to proactively address issues and capitalize on opportunities.



Advanced Analytics

Dive deep into your data with our advanced diagnostic tools. Uncover patterns, correlations, and outliers that might go unnoticed in traditional analysis. Make data-driven decisions with confidence and precision.



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