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/m³ via an integrated calibration function. The tribo-electric technique is extremely sensitive, capable of detecting dust concentrations of less than 1mg/m³ 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
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**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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**EnergyTech 301**

**TECHNICAL SPECIFICATIONS**