

The EnergyTech 201/202 is a cost-effective way for early detection of high CO levels in coal handling systems to prevent catastrophic damage.

The **ENERGYTECH 201/202** systems sample the gas from the critical area through a sintered steel filter mounted in the wall of the chamber. This removes the need for intrusive sampling probes which are prone to wear and expensive to replace.

The filter is back flushed with compressed air at regular intervals to ensure an uninterrupted flow of sample gas and to minimize maintenance. The sampled gas requires no further pre-conditioning and is carried via a sample line and pump to the measurement chamber which is equipped with a compact gas analyzer. The measurement chamber is heat-traced to avoid a build-up of corrosive condensation.

The analyzer can re-calibrate automatically to minimize drift and ensure on-going high performance. The system also includes the capability to be checked manually against bottled audit gases.

Features and Benefits:

- > Compact powerful diaphragm pump for constant reliable sampling
- > Automated self-cleaning filter design for minimum maintenance
- > Automated blockage check and sample flow rate check for increased availability
- > Temperature controlled measurement cell for maximum accuracy and long life
- > Infrared technology for CO or electro-chemical technology for CO and Oxygen



APPLICATIONS

- > Coal Mills
- > Coal Bunkers
- > Grinding plants
- > Coal Conveyer
- > Silos

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	ET201 – Electro-Chemical	ET202 – Infrared Absorption
Measurement Parameter	CO (Carbon Monoxide) & O ₂ (Oxygen)	CO (Carbon Monoxide)
Span	Fully selectable: 0-4000 ppm (CO) 0-25% (O ₂)	Fully selectable: 0-10,000 ppm (CO)
Dimensions (in)	20"H x 12"W x 8.25"D	31.5"H x 23.5"W x 12"D

Sensor Unit

Response Time	30 Secs to T90
Accuracy	± 2ppm or ± - 2% of span, whichever is greater
Resolution	1 ppm
Zero and Span drift	± 2ppm or ± -2% of span
Linearity	± 2ppm or ± -2% of span whichever is greater
Repeatability	± 2ppm or ± -2% of span whichever is greater
Ambient Temperature	-4°F to 122°F
Power Supply	110 – 240 VAC 500VA
Construction	Powder coated steel, IP66

Supply Box

Analog Outputs	2 x 4-20 mA isolated current outputs, 500Ω load max, fully configurable from keypad (additional outputs available)
Digital Outputs	1 x volt-free SPCO contact, 50V, 1A max (for data valid signal)
Diagnostic Data	RS485 port for CODEL diagnostic use
Display	32 Character Alpha-Numeric Black-Lit LCD
Keypad	4 Key Soft-Touch Entry

Power and Air Requirements

Power	100W @ 220V AC
Compressed Air	5-7 bar oil free clean compressed air: dry to 154°F Only required during filter back flush

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