



TORONTECH

CONTINUOUS MONITORING SYSTEM FOR HEAVY METALS IN FLUE GAS



The Continuous Monitoring System for Heavy Metals in Flue Gas is a comprehensive solution for the rapid online analysis of heavy metal pollutants in flue gas. This system uses the principle of isokinetic sampling of particulate matter and heat tracing extraction technology to automatically concentrate particles from smoke and dust onto a coil filter membrane for high-precision XRF analysis.

Continuous Monitoring System for Heavy Metals in Flue Gas enables continuous automatic monitoring of particulate matter concentration from fixed pollution sources, as well as the concentration of gaseous pollutants and total pollutant discharge. The system then transmits monitoring data and information to the relevant environmental protection authorities, ensuring that pollutant concentrations and total pollutant discharge from industrial facilities meet regulatory standards.

APPLICATIONS

Continuous Monitoring System - Battery manufacturing

Battery manufacturing

Continuous Monitoring System - Waste incinerator

Waste incinerator

Continuous Monitoring System - Waste incinerator (second)

Waste incinerator

Continuous Monitoring System - Coal-fired power plants

Coal-fired power plants

Continuous Monitoring System - Iron and steel / non-ferrous smelter

Iron and steel plant, non-ferrous metal smelter

Continuous Monitoring System - Waste incineration plant

Waste incineration plant

Continuous Monitoring System - Mine

The mine

Continuous Monitoring System - Petrochemical plant

Petrochemical plant

FEATURES

Flexibility

Generally, analysis results can be obtained every 15 minutes. The sampling and analysis time can be programmed, and measurement results are displayed in real-time, allowing for convenient on-site data viewing.

Data transmission

Continuous Monitoring System for Heavy Metals in Flue Gas equipped with RS232/485, USB, GPRS, ADSL, Ethernet, and various other data transmission modes, the system enables remote transmission, monitoring, and inspection of operational parameters, status updates, and data.

Safety

The Continuous Monitoring System for Heavy Metals in Flue Gas undergoes professional radiation treatment to prevent any radiation leakage, ensuring safety and reliability during operation.

Intelligent

The Continuous Monitoring System for Heavy Metals in Flue Gas features automatic quality control, utilizing internal standard elements to automatically verify the long-term stability of the system. With no personnel required for continuous operation, it offers simple operation and maintenance. Additionally, apart from the filter belt, there are minimal daily supplies needed.

Alarm system

Continuous Monitoring System for Heavy Metals in Flue Gas with an intelligent alarm system, it includes alerts for various abnormalities such as sample temperature, condenser temperature, heating temperature, and low flow rate, ensuring

prompt detection and response to any deviations.

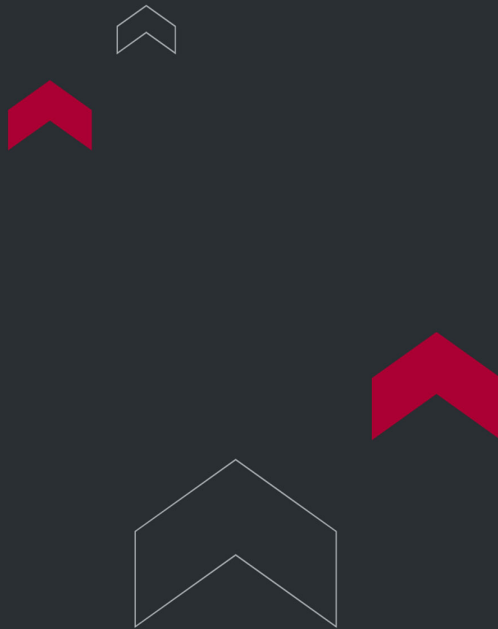
Data storage

The Continuous Monitoring System for Heavy Metals in Flue Gas and system feature a log function that records the operating parameters, serving as the foundation for ensuring the accuracy and reliability of system data traceability.

TECHNICAL SPECIFICATIONS

Method of measurement	Energy dispersion type, using XRF to identify the metal content of particulate matter in the air
Main monitoring element	Ti, V, Cr, Mn, Fe , Co, Ni , Cu, Zn , Ga , As, Se, Sr , Pb , Rb, Mo , Hg , Ba , Cd , Sb , Sn and more than 20 elements
Size	435×510×660mm□ L×W×H□
Weight	85KG
Measuring range	0□ 5000 μg/m ³
Detection limit	≤ 0.1 μg/m ³
Linearity	Correlation coefficient≥ 0.99
The gas temperature	-20 ~ 600 °C
Gas pressure	-20 ~ 50 kPa
The gas flow velocity	0~30 m/s
Sampling and analysis time	10□ 120min
Sampling flow rate	(0-5) L/min adjustable, constant sampling
Calibration	Daily automatic calibration

Filter membrane replacement cycle	1 month
Working environment conditions	Temperature -20~50°C, humidity 0~90%RH
Communication interface	RS232/RS485/RJ45, GPRS module can be configured
The power supply	220VAC±10%(50±1Hz) (110V also available)



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