

## Measuring Principle

Based on Cold Vapor Atomic Fluorescence Spectrophotometer technology, we have developed mercury analyzer system to detect the real time concentration of emission mercury and its cumulate emission rate. It is able to monitor gaseous elemental mercury, ionic mercury and total gaseous mercury. Its detection limit is low to  $0.05\mu\text{g}/\text{m}^3$ . This system is widely applied to measure mercury concentration in the tail gas of ,amy industries, such as mercury minerals refining process, mercuric chloride catalyst recycling, coal-fired power plant.



## Features

- Adopting CV AFS technology with high measurement accuracy
- Sampling untreated gas of large flow, strong resistance to adsorbability
- Combining internal and external purge, long maintenance intervals
- Real Time monitoring the dilution ratio and reflecting true working condition
- Mercury valence state catalyzed and converted at  $800^{\circ}\text{C}$ ; converting rate up to 95%

## Application

- Apply to ammonia slip emission monitoring
- Power Plant
- Aluminium Plant
- Steel Mills
- Smelting
- Glass Factory
- Garbage Power Plant
- Cement Plant
- Chemical Plant

## Specification

Principle	Cold Vapor Atomic Fluorescence Spectrophotometer
Range	$0\sim 10\mu\text{g}/\text{m}^3 \sim 200\mu\text{g}/\text{m}^3$ (customizable)
Indication Error	$\leq \pm 5\%$
Repeatability	$\leq \pm 1\%$
Stability	$\leq \pm 1\%$
Zero Drift	$\leq \pm 1\%$ F.S
Span Drift	$\leq \pm 1\%$ F.S
Size	800mm x 600mm x 1800mm
Power	230VAC, 5000W
Working Temp	$-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$
Working Humidity	0-95% RH (No Condensate)