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Product Overview



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EM-5Hg Mercury Continuous Emission Monitoring System is an environmental monitoring product based on Cold Atomic Fluorescence Spectrometry, developed for measuring real-time mercury concentration and accumulative mercury discharge in flue gas emission. It is composed by sampling probe, tracing pipe, pretreatment system, mercury analyzer, element mercury generator, ion mercury generator and nitrogen generator, which can online monitor gaseous element mercury, gaseous ion mercury and gaseous total mercury. The detection limit can reach $0.05\mu\text{g}/\text{m}^3$.

Features

- Adopt Cold Atomic Fluorescence Spectrometry; low detection limit, small temperature drift.
- Continuously extract raw gas in large flow into pretreatment system; strong adsorption resistance and fast response.
- Sampling probe adopts technology combining internal purge and external purge, long maintenance-free period.
- Detect dilution ratio in real time; calculate actual Hg concentration according to real-time dilution ratio to reflect working operating condition truly.
- Employ catalyst to react under 800°C , valence state conversion efficiency can reach 95%.

Applications

Applied in mercury concentration monitoring on exhaust emission occasions, including refining process of mercury ore, mercury catalyst recovery process, coal-fired power plant, etc.

Specifications

Measuring technology: Cold atomic fluorescence

Range: $0\sim 20\mu\text{g}/\text{m}^3\sim 200\mu\text{g}/\text{m}^3$ (customizable)

Indication error: $\leq 5\%$

Repeatability: $\leq 1\%$

Stability: $\leq 1\%/1\text{h}$

Zero drift: $\leq 1\%\text{F.S.}$

Span drift: $\leq 1\%$ F.S.

Dimension: 800mmx600mmx1800mm

IP grade: cabinet IP42, others IP65

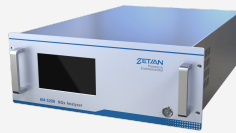
Power supply: $(220\pm 15\%)$ VAC, 5000W

Working temperature: $-20^{\circ}\text{C}\sim 50^{\circ}\text{C}$

Working humidity: 0~95%RH (non-condensing)

Compressed air: 0.9MPa, 0.25m³/min, clean, oil-free & water-free

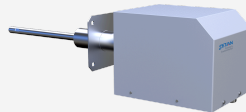
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