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GCOM-4000-VOCs Water Volatile Organic Compounds O...

Product Overview



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GCOM-4000-VOCs is composed by headspace sample introduction module and high temperature chromatographic analysis module (GC-FID). It is able to monitor benzene series (benzene, toluene, xylene, ethylbenzene, styrene, etc.) and other volatile organic pollutants in industrial wastewater and surface water section. The water sample is pumped into headspace pool of



surface, then the volatile sample gas is transferred to high temperature chromatographic analysis module for detection through pressurizing and decompressing of carrier gas. Through the process of changing liquid phase to gas phase via headspace sampling device, volatilized clean gas can be measured directly. The influence of impurities (such as suspended matter) in water on the analysis flow path can be overcome.

| Features

- Through the process of changing liquid phase to gas phase via headspace sampling device, volatilized clean gas can be measured directly and the influence of impurities (such as suspended matter) in water on the analysis flow path can be overcome
- After each sample introduction, the analyzer automatically purges towards the chromatographic column to speed up analysis and screening of component
- Intelligent FID detector automatically ignites when flameout, effectively controls the safety of hydrogen flame gas path
- Internal pipeline of the chromatograph have been processed with silanization, which greatly reduces the adsorption residue of gas sample in pipeline wall

| Applications



| Specifications

Measuring method: GC-FID gas chromatography

Measurement parameter: benzene series

Range: 0-20mg/L

Detection limit: 0.05mg/L

Lower limit of detection: 0.1mg/L

Resolution: 0.01mg/L

Indication error: $\leq 15\%$

Qualitative repeatability: $\leq 1\%$

Quantitative repeatability: $\leq 10\%$

Measurement period: $\leq 1\text{h}$

Communication protocol: Modbus-RTU/GB2017

Dimension: 800mmx800mmx1865mm

IP grade: cabinet IP42

Power: 220VAC, 1500W

Working temperature: $5^{\circ}\text{C}\sim 45^{\circ}\text{C}$

Working humidity: $< 95\%$, non condensing

Compressed air: $(0.4\sim 0.8)\text{MPa}$, clean, oil-free

Carrier gas: nitrogen, purity $\geq 99.999\%$



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