



EIE

Full-Automatic Gas Sampling system

EIE-CYQ-01

Fully Automated Gas Sampling System



- ASTM D1265, ISO 4257
- One-click activation of the sampling system, featuring fully automated and sealed sampling without manual intervention.
- To ensure sample safety in a laboratory environment, automatically complete 80% of the required sampling volume.
- For sampling bottles containing 3 or more samples, automatically rotate the bottle 180 degrees to eliminate residual sample contamination, ensuring the authenticity and representativeness of the collected samples.
- Conduct closed-system sampling throughout the entire process to prevent contamination and leakage of toxic or hazardous gases into the air.
- Automatically open and close the sampling bottle valve.
- Safety modules: digital pressure controller, combustible gas alarm, toxic/hazardous gas alarm/magnetic sample inlet valve, magnetic sample outlet valve, providing multiple safety protections in emergency situations.



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Introduction

Our company's innovative fully automated gas sampling system is suitable for collecting samples of liquefied gas, ethylene, propylene, and liquid ammonia in petrochemical and coal chemical facilities. The sampler effectively prevents sample contamination through three 180-degree rotations; it automatically achieves 80% sampling coverage while ensuring operational safety; and its contactless design completely eliminates safety hazards posed by toxic gases during sampling processes.





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Technical Features

1. One-click activation of the sampling system, featuring fully automated and sealed sampling without manual intervention.
2. To ensure sample safety in a laboratory environment, automatically complete 80% of the required sampling volume.
3. The three-stage sampling bottle (model 180) automatically rotates to eliminate residual sample contamination, ensuring the authenticity and representativeness of the collected samples.
4. Conduct closed-system sampling throughout the entire process to prevent contamination and leakage of toxic or hazardous gases into the air.
5. Automatically open and close the sampling bottle valve.
6. Safety modules: digital pressure controller, combustible gas alarm, toxic/hazardous gas alarm/magnetic sample inlet valve, magnetic sample outlet valve, providing multiple safety protections in emergency situations.
7. Transportation and Sampling Module: Utilizes a 90-degree vertical transportation and sampling mechanism to ensure representative sample analysis.
8. The flow meter is connected to the main pipeline assembly and displays instantaneous and cumulative flow rates, designed for measuring sampling samples in industrial processes.
9. The pipeline residue sampling device ensures zero emissions of residual VOCs.
10. The visual sampling cylinder allows clear observation of the sample's volume, appearance color, impurities, moisture content, and other physical properties.
- 11. Power: 1000 W for energized tracing, 400 W for non-energized tracing**



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One-click activation of the sampling system, featuring fully automated and sealed sampling without manual intervention.



Conduct closed-system sampling throughout the entire process to prevent contamination and leakage of toxic or hazardous gases into the air.



The visual sampling cylinder allows clear observation of the sample's volume, appearance, color, impurities, moisture content, and other physical properties.



Safety Modules: Digital pressure controller, combustible gas detector, toxic and hazardous substance detector



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SPECIFICATIONS

Standards	
ASTM D1265, ISO 4257	
Technical Details	
Sampling Range	50~1000mL
Accuracy	Standard Compliance: ASTM D1265, ISO 4257
Sample Pressure	≤3MPa
Explosion- proof Grade	Exdbeb II CT4Gb
levels of protection	IP65
supply voltage	AC110-220V ± 10% 50Hz
Power	1000W
Electrical Interface	G3/4"
Sampling Pipeline	1/4"OD SS TUBING
attended mode	Clamp connection or flange connection
Operating Enviornment	
Ambient temperature	-50℃~+60℃
Environmental conditions: Outer shell	Protection rating: IP65
Product Size	
Dimensions (mm)	1200 (W) × 1600 (H) × 600 (D) mm, skid- mounted
Weight	300KG