

24 / Online Gas Analysis System for the Chemical Industry

【 PRODUCT DESCRIPTION 】

Online gas analysis is critical for chemical production, affecting product quality, efficiency, profitability, safety and emission compliance.

TK-5000 series adopts mature control technology and advanced pre-treatment solutions. Customized configurations of probes, pipelines, valves, pumps and analyzers are available to meet diverse process requirements.



【 PRODUCT FEATURES 】

- Calorific value analysisGas analyzers measure the calorific value of natural gas to ensure stable production.
- Gas gathering and transmissionOnline dew point monitors are deployed at ground stations to check dehydration performance of raw natural gas.
- Natural gas purificationRaw gas undergoes desulfurization, decarbonization, dehydration and dehydrocarbon treatment. Online hydrogen sulfide and dew point analyzers are installed at corresponding units. Real-time monitoring keeps final gas compliant with GB/T17820-2012.
- Long-distance transmission stationsDew point and hydrogen sulfide are continuously monitored at pipeline terminals, compressor stations and city gate stations along transmission routes.

【 TECHNICAL PARAMETERS 】

Item	Specification
Detection Process Point	Designated process sampling point
Measured Components (Max. Permissible Error)	CO, H ₂ , CH ₄ , O ₂ , CO ₂ , NH ₃ , DP, calorific value; hydrocarbons, etc. (ranges customizable upon request)
System Response Time	≤ 15 s
Measurement Range	Customizable according to customer requirements
Measurement Accuracy	≤ 1% F.S.
Stability	Zero drift: 0.5% of range per month; Span drift: 0.5% of range per month
Repeatability	≤ 1% F.S.
Solids Filtration Precision	1 μm
Signal Output	4–20 mA isolated current signal
Alarm Output	Contact capacity: 3 A / 220 V, function customizable