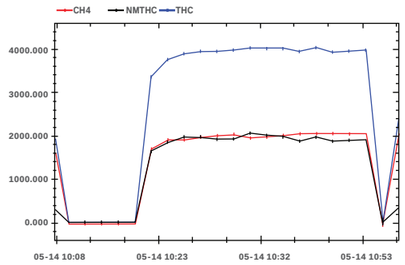
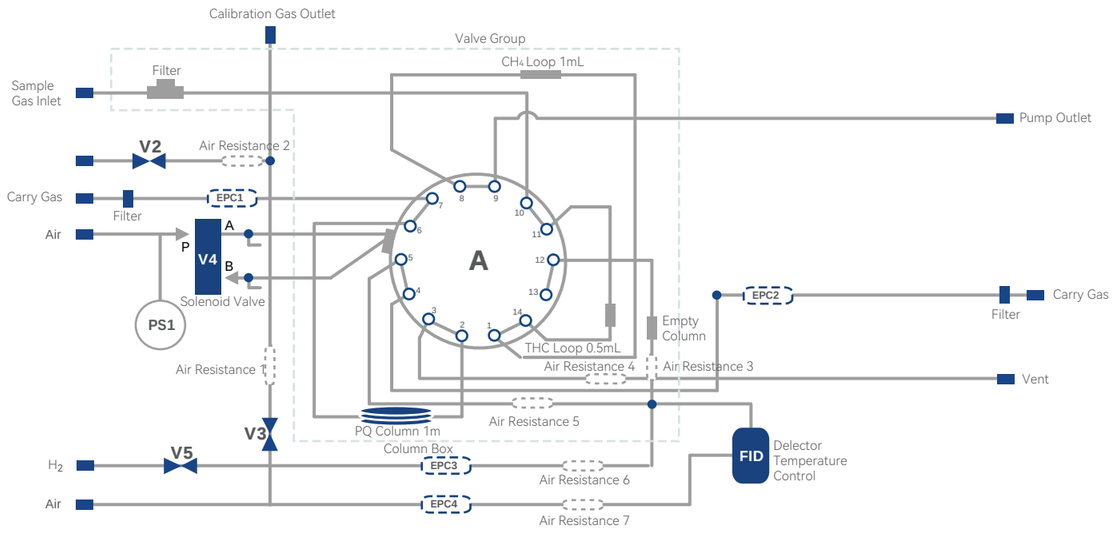
EXPEC-2000 Series Methane/ NMHC/THC Analyzer

This analyzer adopts high-temperature heat tracing double valve column-parallel back blowing chromatographic separation technology, which can automatically measure and analyze methane and total hydrocarbon content.



Principle

The valve body switches back and forth to collect the sample into the quantitative ring. The total hydrocarbon in the empty column and the methane in the chromatographic column can quickly pass through the detector. The valve body makes the carrier gas flow reversely through the chromatographic column to blow the non-methane total hydrocarbon out of the analysis system without being detected.



Features

01. Measurement components include methane, non-methane total hydrocarbon, and total hydrocarbon

02. The FID flame will light automatically after a warm-up time. It is continuous online analysis, automatic cycle operation at startup

03. Because the content of non-methane total hydrocarbon is calculated by the difference between total hydrocarbon and methane content, which significantly shortens the analysis cycle, analysis cycle less than 1.5 minutes operation continuously with free maintenance

04. The high-temperature heat tracing technology developed for high boiling non-methane total hydrocarbon significantly reduces the chromatographic peak broadening of high boiling non-methane total hydrocarbons and allows the instrument to accurately measure the non-methane total hydrocarbons of high boiling substances amount

Specifications

Measurement Components	Methane NMHC THC
Principles	FID
Range	Methane:0.1~1000ppm; NMHC:1~1000ppm
Lower Detection Limit	Methane:0.1ppm; NMHC:0.05ppm
Repeatability	RSD<2% <60s
Gas Source Requirement	Carrier gas:high purity nitrogen or zero-level air(>99.999%) Gas:high purity hydrogen(>99.999%) Combustion-supporting gas:zero-level air;
Output	4~20mA, RS485, RS232, Ethernet
Power Supply	＜500VA, 220V AC/50Hz
Condition Temperature	(5~35)℃
Chromatographic Column	1m Porapak Q packed column