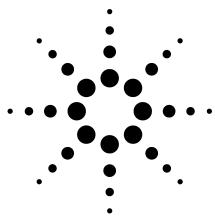
Application 383D-00 Agilent Refinery Gas Analyzer







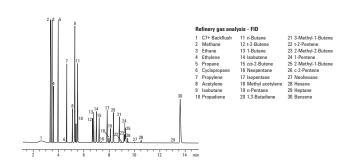
Application Highlights

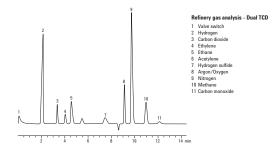
- A Flame Ionization Detector (FID) is used to detect the C1 through C7 paraffins and olefins to a lower detection limit of 20 ppm, except for trace peaks eluting on the tail of a major component.
- A Thermal Conductivity Detector (TCD) is used to detect hydrogen in a nitrogen carrier to a lower detection limit of 100 ppm.
- A second TCD is used to detect carbon dioxide, ethane, ethylene, acetylene, hydrogen sulfide, oxygen/argon composite, nitrogen, methane, and carbon monoxide to a lower detection limit of 200 ppm except for carbon monoxide (400 ppm), and hydrogen sulfide (500 ppm).
- Analysis time is approximately 15 minutes.

Optional Configurations

- · Refinery gas analysis with trace sulfurs by FPD or SCD
- Additional boiling point column for the analysis of heavy hydrocarbons (C1–C30)
- Standard analysis with the addition of trace CO by methanizer
- Custom analyzer for performing ASTM D2163, ASTM D2712, ISO 7941, and ASTM D1945
- High temperature injection for heavy fractions
- High temperature reactor effluent with percent level water
- TCD/TCD/MSD for the analysis of reactor effluent gases
- Liquid sample valves for the injection of pressurized liquid samples.







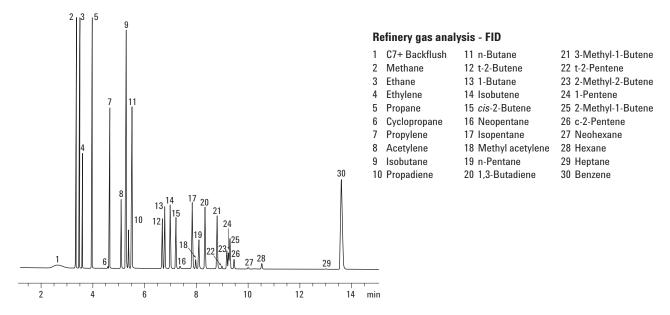
For More Information

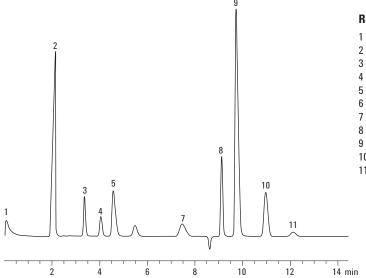
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Refinery gas analysis - Dual TCD

- 1 Valve switch
- 2 Hydrogen
- 3 Carbon dioxide
- 4 Ethylene
- 5 Ethane
- 6 Acetylene
- 7 Hydrogen sulfide
- 8 Argon/Oxygen
- 9 Nitrogen
- 10 Methane
- 11 Carbon monoxide

 ${\bf FID\ and\ TCD\ output\ from\ the\ Agilent\ Refinery\ Gas\ Analyzer.}$

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