Light Hydrocarbons/ Fixed Gases by TCD Model 4016Ar

- Typical analyses: light gases, furnace gases, stack gases, combustion gases, decoking gases, mine gases, “bio gas”
- Uses Argon carrier gas for full range H₂ detection
- Packed columns – single thermal conductivity detector (TCD)
- Often used as one channel of an analyzer – very versatile
- Sample types analyzed: Gas
- Some common added channels for custom analyses:
  - Flame ionization detector (FID) for better hydrocarbon detection
  - Methanizer/FID and purged-valve housings for trace CO and CO₂ analysis
  - Flame photometric detector (FPD) or a sulfur chemiluminescence detector

Detected Compounds
H₂, O₂, N₂, CH₄, CO, CO₂, ethylene, ethane, acetylene, H₂S

Key Features
- Meets:
  - ASTM® D1946
- Guaranteed detection levels (based on individual components without interference from neighboring peaks):

<table>
<thead>
<tr>
<th>Light Hydrocarbon/Fixed Gas (TCD)</th>
<th>Min (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H₂</td>
<td>0.001</td>
</tr>
<tr>
<td>H₂S</td>
<td>0.2</td>
</tr>
<tr>
<td>All other components</td>
<td>0.1</td>
</tr>
</tbody>
</table>

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