

# Thermo Scientific Gas Chromatograph Analyzers

## Natural Gas Analyzer for GPA 2186



### Product Spotlight

The Thermo Scientific Natural Gas Analyzer analyzes Natural Gas Liquid (NGL) samples to determine BTU content as outlined in GPA Method 2186. The system, based on the Thermo Scientific™ TRACE™ 1310 gas chromatograph, analyzes a single NGL sample on two independent channels—C7+ regroup BTU and C1-C16 extended hydrocarbon detail.

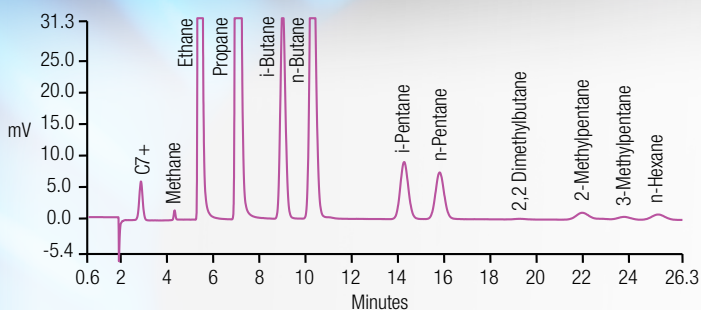
### Channel One Thermal Conductivity Detector (TCD)

- Single high pressure liquid injection valve
- Components: C7+ regroup, Nitrogen (air composite), Methane, Carbon Dioxide, Ethane, Propane, i-Butane, n-Butane, i-Pentane, n-Pentane, 2,2 Dimethylbutane, 2-Methylpentane, 3-Methylpentane, n-Hexane
- Three packed columns in Auxiliary Valve oven

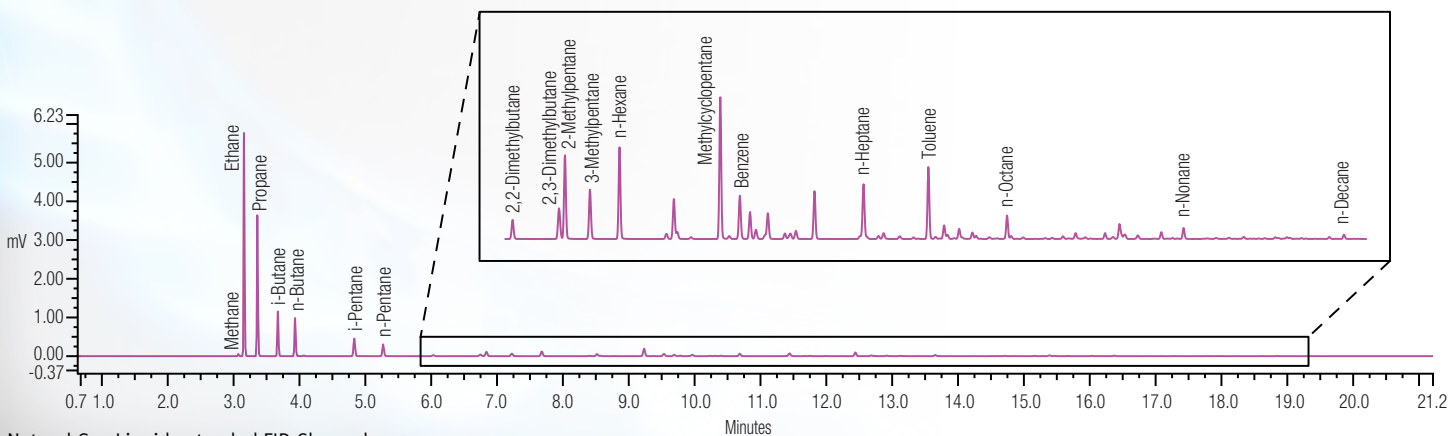
- Independently heated valve oven with two valves
- Plumbed with sulfur-resistant tubing

### Channel Two Flame Ionization Detector (FID)

- Single high pressure liquid injection valve
- One capillary column in GC oven
- Components: C1-C16 hydrocarbons



Natural Gas Liquid with C7+ early regroup



Natural Gas Liquid extended FID Channel

# Thermo Scientific Gas Chromatograph Analyzers

## Natural Gas Analyzer for GPA 2186



Natural Gas System Specifications		
Channel	Channel One TCD	Channel Two FID
Analysis	Natural Gas Liquid C7+	NGL C1-C16
Detectors	TCD	FID
N <sub>2</sub> (air composite), CO <sub>2</sub>	Yes	No
O <sub>2</sub> /N <sub>2</sub>	No	No
He/H <sub>2</sub>	No	No
Hydrocarbons	C1-C6 with C7+ regroup	C1-C16
Repeatability	<1.0%	<1.0%
MDL Hydrocarbons	0.005%	0.001%
MDL Perm Gases	0.01%	NA
MDL H <sub>2</sub> S	0.05%	NA
Valves per channel	2	1
Columns per channel	3 packed	1 capillary
Sulfur Inert	Yes	Yes

Thermo Fisher Scientific offers a suite of more than 20 turnkey analyzers for natural gas, natural gas liquids, and liquefied petroleum gas. Single channel, dual channel, or multi-method combination systems are available to meet your requirements. Customized systems can be designed to meet individual analytical challenges as required. Contact your local representative for more information.

**For more information, visit [www.thermofisher.com/oilandgasinfo](http://www.thermofisher.com/oilandgasinfo)**

©2016 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific Inc. and its subsidiaries. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representative for details.