

Applications by Segment



JP3 delivers real-time and on-line compositional and physical property measurements across the upstream, midstream and downstream segments of the oil and gas industry.

JP3's Verax family of Near-Infrared analyzers are designed specifically for oil and gas applications. With faster measurement times, up to eight independent spectrometer detectors, enhanced optical components, and a new flow cell, Verax analyzers provide significant improvements in measurement speed, quality, repeatability, stability, and reliability in even the harshest environments. Natural gas or liquids can be accurately analyzed to obtain hydrocarbon composition, Vapor Pressure, BTU, API gravity, and many other physical properties. The Verax flow cell is installed in the process at operating pressure and temperature requiring no sampling or conditioning systems. Each process stream can support any number of compositional and physical measurements. Our advanced technology means the Verax analyzer produces no emissions and requires no carrier gases or calibration gases.

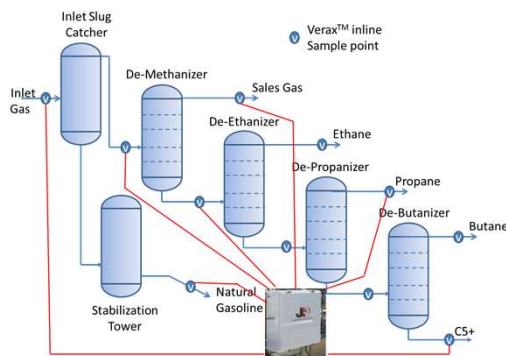
Upstream Applications

- Well pad separation units (gas and liquid)
- Vapor recovery units
- Compressor fuel gas
- Liquid and gas allocations
- Stabilizers
- Heater Treaters
- Truck loading



Midstream Applications

- Terminals (crude, NGL, condensate)
- Blending (crude, NGLs)
- Truck offloading
- Stabilization (crude, condensate)
- Pipelines (products, interfaces)
- Gas plants and fractionation plants
- Gas pipelines



Downstream Applications

- Refinery crude supply
- Crude blending
- Crude Distillation Unit
- Terminals (Refined fuels, NGLs)
- Pipelines (refined fuels, purity products)
- Gasoline blending (vapor pressure, butane)
- NGL blending (ethane/propane)



Measurements

The table below is a partial listing of available measurements with reference standards by market segment

Market	Product	Measurement	Standards
Upstream	Crude	C1-C30+ Composition	GPA 2103, GPA 2186
Upstream	Crude	Vapor Pressure	ASTM D6377
Upstream	Crude	API Gravity	ASTM D4052
Upstream	Crude	True Boiling Point	ASTM D2892, ASTM D5236
Upstream	Crude	Simulated Distillation	ASTM D7169
Upstream	Condensate	C1-C15+ Composition	GPA 2103, GPA 2186
Upstream	Condensate	Vapor Pressure	ASTM D6377
Upstream	Condensate	API Gravity	ASTM D4052
Upstream	Natural Gas	C1-C15+, CO2, N2	GPA 2286
Upstream	Natural Gas	Relative Density	GPA 2286
Upstream	Natural Gas	BTU	GPA 2286
Upstream	VRU Gas	C1-C15+, CO2, N2	GPA 2286
Upstream	VRU Gas	Relative Density	GPA 2286
Upstream	VRU Gas	BTU	GPA 2286
Midstream	Natural Gas	C1-C6+, CO2, N2	GPA 2286
Midstream	Natural Gas	Relative Density	GPA 2286
Midstream	Natural Gas	BTU	GPA 2286
Midstream	NGL Products	C1-C6+	ASTM 2163
Midstream	NGL Products	Specific Gravity	ASTM D1657
Midstream	NGL Products	Vapor Pressure	ASTM D1267, D2598, D6897
Midstream	Condensate	C1-C15+ Composition	GPA 2103, GPA 2186
Midstream	Condensate	Vapor Pressure	ASTM D6377
Midstream	Condensate	API Gravity	ASTM D4052
Downstream	Natural Gas	C1-C6+, CO2, N2	GPA 2286
Downstream	Natural Gas	Relative Density	GPA 2286
Downstream	Natural Gas	BTU	GPA 2286
Downstream	Y Grade NGL	C1-C6+	GPA 2186
Downstream	Y Grade NGL	Vapor Pressure	ASTM D2163
Downstream	Y Grade NGL	Distillation	ASTM D7344, D2887
Downstream	NGL Products	C1-C6+	ASTM 2163
Downstream	NGL Products	Specific Gravity	ASTM D1657
Downstream	NGL Products	Vapor Pressure	ASTM D1267, D2598, D6897
Downstream	Gasoline	Benzene	ASTM D5580
Downstream	Gasoline	Density	ASTM D4502
Downstream	Gasoline	Distillation	ASTM D86
Downstream	Gasoline	RON	ASTM D2699
Downstream	Gasoline	MON	ASTM D2700
Downstream	Gasoline	Vapor Pressure	ASTM D5191, D6378
Downstream	Gasoline	Butane	ASTM D2186
Downstream	Diesel Fuel	Cetane Index	ASTM D4737
Downstream	Diesel Fuel	Cetane Number	ASTM D613
Downstream	Diesel Fuel	Cloud Point	ASTM D2500
Downstream	Diesel Fuel	Density	ASTM D4502
Downstream	Diesel Fuel	Distillation	ASTM D86
Downstream	Diesel Fuel	Flash Point	ASTM D93
Downstream	Jet Fuel	Density	ASTM D4502
Downstream	Jet Fuel	Distillation	ASTM D86
Downstream	Jet Fuel	Flash Point	ASTM D56
Downstream	Jet Fuel	Freeze Point	ASTM D5972



JP3 Verax CTX 4 stream analyzer

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