

NATURAL GAS LIQUIDS ANALYZER

Laser-Based Analyzer for NGLs

LaserSense-NGL is a Quantum Cascade Laser-based gas analysis system designed to analyze and quantify hydrocarbons (C1-C6) in NGL applications.

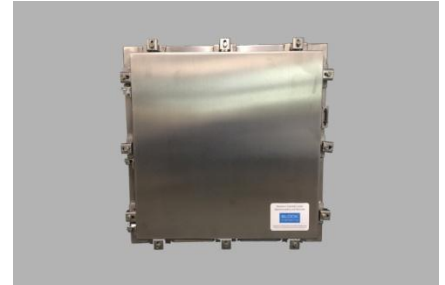
The system provides accurate speciation of C1-C6 hydrocarbons (including isomers) in seconds. Unlike traditional GC systems, the LaserSense-CV requires no consumables or costly maintenance.

Built around Block's Quantum Cascade Laser technology, the LaserSense-NGL allows for wide tunability across the mid-infrared spectrum. This enables the system to provide full multicomponent analysis – and consequently precise, continuous measurement of hydrocarbons.

The LaserSense-NGL is available in purged NEMA, explosion-proof, and portable version in ruggedized pelican case housing. Data is output using a simple HTML5 interface, Modbus over TCP/IP, or analog 4-20 mA.

Key Features

- ▶ Permanent calibration with no carrier or calibration gas needed
- ▶ Solid-state design with no moving parts
- ▶ 3 second update time: real-time analysis
- ▶ C1-C6 speciation: C1, C2, C3, nC4, iC4, nC5, iC5, neoC5, and C6
- ▶ No consumables
- ▶ Small footprint
- ▶ Purged NEMA, explosion-proof, and portable pelican case housing available



LaserSense-NGL Analyzer in Purged NEMA Housing



LaserSense-NGL Analyzer in Explosion-Proof Housing



Portable LaserSense-NGL Analyzer in Pelican Case



LaserSense-NGL Specifications

PERFORMANCE

Range	Standard analytes: methane, ethane, propane, iso-butane, normal butane, iso pentane, normal pentane, neo-pentane, and hexane. Others available upon request.
LOD of Individual Gases	Application dependent and generally less than 1000 ppm
Response time	T90 < 9 seconds at 3 lpm
Accuracy	Application dependent and generally better than 5% of full scale
Speciation Repeatability	Application dependent and generally better than 2% of full scale

ENVIRONMENTAL

Analyzer operational temperature range	10°C to 35°C
Field unit packaged operational temperature range	-40°C to 50°C
Housing	General purpose, purged NEMA, explosion proof, or portable pelican case

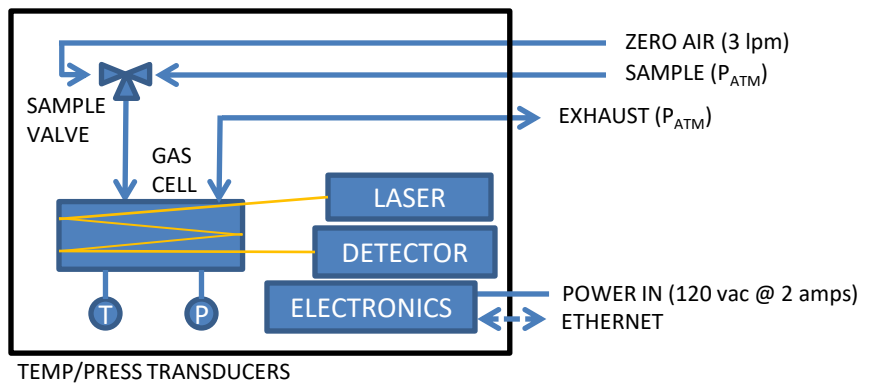
USER INTERFACE / CONNECTIVITY

Modbus or SOAP over TCP/IP
HTML 5 User Interface
4-20 mA

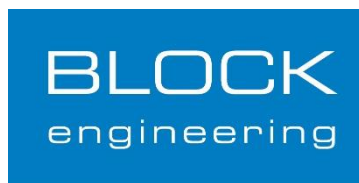
POWER REQUIREMENTS

100 to 240 VAC, 50/60 Hz, 200 Watts
DC power option available

LaserSense-NGL Flow Diagram



Block Engineering
377 Simarano Drive
Marlborough, MA 01752



www.blockeng.com

Main: 508.251.3100
Fax: 508.251.3171
info@blockeng.com