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About Lime Instruments

The Lime Legacy



Lime Instruments is a Houston-based global provider of electrical rig-up services for land-based oil rigs as well as leading-edge controls and instrumentation for the energy industry.

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Blender

The Lime Instruments Blender Control System combines precision measurement and control with ruggedized oilfield ready toughness.

- Automatic or manual auger control.
- Automatic or manual Chemical Pump control
- Engine Control / J1939 Code reporting
- Stage Information Display
- Datavan Integration, Wired/Wireless



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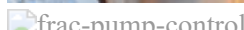
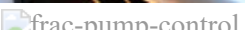
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Conventional Frac Pump Control



Specifications:

- Proven solution with more engine and transmission configurations than any other company in the world

- Multiple layers of redundancy for reliable control
- Fastest, most reliable overpressure shutdown in the business
- Full on-board controls and diagnostics locally on the pump
- Multipump capable
- Over 700 outfitted units in operation worldwide
- Able to retrofit existing units to run Lime software
- Seamlessly integrates with other auxiliary equipment

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Custom Software and Hardware



 custom-software-and-hardware

Specifications:

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Data Acquisition

CTDAS

The Lime Instruments Coil Tubing Data Acquisition System (CTDAS) includes all the necessary components to monitor your coil tubing unit.

- National Instruments Compact RIO (cRIO) system with two 19" ruggedized resistive touch monitors connected to (2) Two fit for purpose ruggedized PC's for redundancy.
- The cRIO combines compact size, extreme ruggedness, hot-swappable industrial I/O modules, and is powered by reconfigurable I/O Field Programmable Gate Array (FPGA) technology.
- Designed for rugged stand-alone or networked control as well as data acquisition applications.
- Embedded controller with LabVIEW Real-Time support for deterministic control, logging, and analysis.
- Solid state Windows XP embedded software designed to run the PC interface from inside the cabin.
- Delivered with Microsoft Excel 2007 and our LIME Instruments Charting & Analysis Data Acquisition Graphical Software to prepare job reports and generate graphical reports.
- Capable of connecting to various typed of coiled tubing support equipment (Twin/Single Fluid Pumps, N2, CO2, or Frac pumps) and providing a homogenous view of resulting data.
- Well Head Pressure, Circulating Pressure, and Weight transducers are standard in our cable and sensor package along with two encoders for redundant depth readings all transmit information real time via injected molded and completely sealed cables.

PortaPAQ

SmartVue DAS

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Data Van

42' Datavan

When your job requires the best, look no further than the Lime Instruments 42' Data Van. Considered the heart and soul of the frac spread, this unit is capable of standing up to the toughest oilfield environments while providing the most detailed data acquisition and controls possible.



RUGGED CONSTRUCTION:

- Custom built enclosures
- Available in any length
- Chassis, Skid, or Trailer Mount
- Slide out included for extra room in cabin
- Operational from -40 to +60C
- Dynamic IP Wireless System
- Remote Monitoring and technical support via satellite



SYSTEM ARCHITECTURE:

- Multi-Pump PC Control Station
- PC Interface to Blender and Chemical Controllers
- Data Acquisition System to monitor and all equipment parameters on location
- Advanced Embedded PC Architecture



26' Datavan



When your job requires the best, look no further than the Lime Instruments 26' Data Van. Considered the heart and soul of the frac spread, this unit is capable of standing up to the toughest oilfield environments while providing the most detailed controls possible.

RUGGED CONSTRUCTION:

- Custom built enclosures
- Available in any length
- Chassis, Skid, or Trailer Mount
- Slide out Standard for extra room in cabin
- Operational from -40 to +60C
- Dynamic IP Wireless System
- Remote Monitoring and technical support via satellite

SYSTEM ARCHITECTURE:

- Multi-Pump PC Control Station for operation of all frac pumps by one operator
- PC Interface to Blender and Chemical Controllers
- Data Acquisition System to monitor and all equipment parameters and discrete sensors on location
- Advanced Embedded PC Architecture

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Data Van

FUNCTIONS	SAVE	EXIT	Digital					Data Instruments DataVan 2.1.37.47.03.2012	
Pressure 1	Discharge Pressure	Discharge Rate	Disch Job Total	Suction Pressure	Suction Rate	Suction Total	Calc Clean		
5073	0	0	0	0	0	0	0		
N2 Rate	Auger 1 Rate	Auger 2 Rate	Auger 3 Rate	L1 gal/1000	L2 gal/1000	L3 gal/1000	CalDensity		
0	0	0	0	0	0	0	0		
Pressure 3	Auger 1PSA	Auger 2PSA	Auger 3PSA	Liquid1 Job Total	Liquid2 Job Total	Liquid3 Job Total	Densitometer		
1151	0	0	0	0	0	0	0		
Analog 4	Auger1 Total	Auger2 Total	Auger3 Total	Dry1 lbs/1000	Dry2 lbs/1000	PPA	Density PPA		
-3755	0	0	0	0	0	2	0		
Slurry SGU	Time Remaining	Suction Remaining	Tub Level	Dry1 Total	Dry2 Total	KGA	Density PPG		
0	0	0	0	0	0	237	0		

data-van datavan-2 datavan-6 datavan-5 datavan-1 datavan-4 data-van data-van data-van data-van data-van

- Fully customizable
- Available in several sizes, e.g. 14' chassis mounted, 26' chassis mounted, and 42' trailered
- Designed by frac hands, for frac hands
- More standard features than any other van in the industry
- More ergonomic and productive layout
- Satellite ready for greater communication
- Standard multipump package allows control of up to 20-pumps from inside van
- Up to 10 computers run four work stations and a 55" wall-mounted display

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Data Van



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Electric Frac

ELECTRIC FRAC

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Electric Frac Pump Control

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Specifications:

- Turbine generator powered electric frac spread
- Smaller footprint
- Fewer trucks round trip
- Quieter design for residential areas
- Multiple layers of redundancy for reliable control

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Frac Pump Control

Single Pump

Lime Instruments' Single Frac Pump Controller (FPC) is designed to provide the user with the latest in pump control while maintaining the rugged properties needed to cater to the oilfield's demands.



KEY FEATURES:

- Redundant operator controls for reliability (Local, Handheld Remote, Laptop, or Data Van)
- Custom 15" 1800 Nit Display on unit
- Ethernet cable for wired control
- Wireless Controls with Dynamic IP Addressing

RUGGED CONSTRUCTION:

- NEMA 4X and Zone Approved packages available
- Operational from -40 to +60C

CONTROLS:

- Engine (MTU, Cummins, Caterpillar)
- Transmission (Allison, Caterpillar, Twin disc)
- Ethernet Based Communications
- J1939 Monitoring and Control
- Over Pressure Trip (configurable on the fly)
- Various options for remote control
- Local touch control on pumping unit

MONITORING:

- All Engine & Trans parameters via J1939 Can Bus
- Discharge Pressure, Rate, Total, and Temperatures for all components

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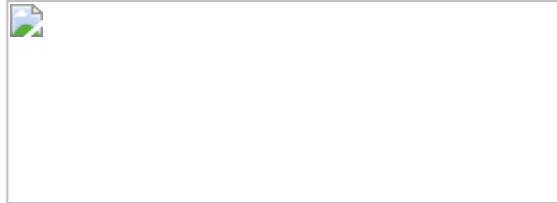
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Frac Pump Controller

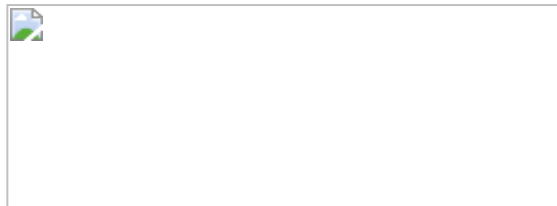


Client Testimonials

"Proven and responsive sums it up. I count on Lime because time is money."

-- Sr. Electronics Technician

Data Van



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Lime FRAC



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OUR HISTORY

The history of Lime Instruments starts in 2006, when C. Jim Stewart III emerges from retirement to begin a new era in the Houston oil industry. Prior to 2006, "Jimmy" Stewart, 58, spent 34 years of full-time employment with Stewart & Stevenson, the family business that his great-grandfather, C. Jim Stewart, started in 1902 as a blacksmith shop in downtown Houston, Texas. Over the past century, Stewart & Stevenson has become an icon in the Houston oil industry and has successfully transformed horseshoes into horsepower by emerging as a major distributor/packager of diesel engines and other products. Jimmy ultimately became an executive vice president of Stewart & Stevenson and sat on the company's board before his retirement at the age of 54.

In 2006, Jimmy decided to get back into industry by acquiring Supreme Electrical Service & Supply Co. Inc. (SES), a privately held oilfield service company located in Houston, Texas. SES, a 58-employee company founded in 1992, provided electrical rig-up services to drilling rig manufacturers. SES gave Jimmy a talented employee base as well as a business foundation to diversify into new product offerings and services. In 2006, Jimmy brought on board his son, Robert Ross Stewart Sr, who also worked at Stewart & Stevenson for over 10 years. While at Stewart & Stevenson, "Rob" Stewart worked in a business development role for the company's oilfield control systems group. In March 2007, shortly after joining his father at SES, Rob quickly worked to assemble a team to start the Controls & Instrumentation division of SES. In 2011, the Controls & Instrumentation division was branded as Lime Instruments. In 2012, the Houston Business Journal (HBJ) deemed Lime Instruments to be the fourth fastest growing business in the City of Houston, and awarded Lime Instruments the title 'Enterprise Champion' in recognition of 613.4% market growth from FY2009 – FY2012.



SES Has Since Organized Into The Following Operational Subsidiaries:



Lime Instruments

Controls And Instrumentation

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Lime Link

Industrial Communications
Provider

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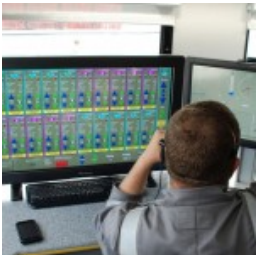
Lime Electric

Electrical Contracting And Rig-Up

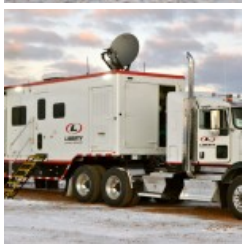
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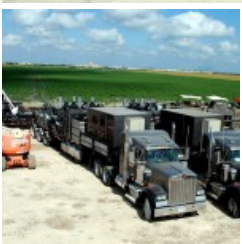


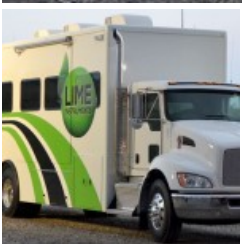
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Manifold Control



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Pump Monitor System

- An ECM for your pump
- Increased perf metrics
- Predictive vs. time-based maintenance
- Reduced overall pump maintenance cost

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The Lime Legacy



Lime Instruments is the result of generations of innovation and proven experience in the instrumentation systems and equipment industry serving clients across the globe in a multitude of applications. Lime’s CEO, Rob Stewart, spent the first years of his career working for the organization founded by his great-grandfather, known worldwide as Stewart & Stevenson. As a fourth generation of Stewarts serving the energy and manufacturing sectors, Rob Stewart along with his father, C. Jim Stewart, III, formulated the plan to build Lime Instruments in an effort to continue the legacy of fulfilling market demand with a proven produce/service offering.

With a legacy of creating value for their client base, regardless of size and scope of the project, Lime brings to the forefront the latest instrumentation technology coupled with unsurpassed customer service. It is this commitment and passion that earns Lime repeat business from leading players in the energy corridor. From software development and customized systems integration to hardware design and installation in the harshest environments, you can rely on Lime day in and day out to deliver results. Lime’s proprietary and guaranteed systems efficiently drive down your overhead while increasing performance, dramatically improving profitability. Call Lime today. And experience the passion inherent in generations of

customer value creation.

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Turbine Frac Pump Control



Specifications:

- Turbine controls for jet powered pumping system
- Environmentally sensitive (Tier IV compliant)
- Reduced footprint on pad site (2 skid mounted per trailer)
- More horsepower in a smaller package
- Flexible fuel options (diesel, natural gas, kerosene)
- Multiple layers of redundancy for reliable control

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Twin Pump Control

Lime Instruments' Single Frac Pump Controller (FPC) is designed to provide the user with the latest in pump control while maintaining the rugged properties needed to survive harsh oilfield's conditions.



KEY FEATURES:

- Redundant operator controls for reliability (Local, Handheld Remote, or Data Van)
- Custom 15" 1800 Nit Display on unit
- Ethernet cable for wired control
- Wireless Controls with Dynamic IP Addressing

RUGGED CONSTRUCTION:

- NEMA 4X and Zone Approved packages available
- Operational from -40 to +60C

CONTROLS:

- Engine (MTU, Cummins, Caterpillar)
- Transmission (Allison, Caterpillar, Twin disc)
- Ethernet Based Communications
- J1939 Monitoring and Control
- Over Pressure Trip (configurable on the fly)
- Various options for remote control
- Local touch control on pumping unit

MONITORING:

- All Engine & Trans parameters via J1939 Can Bus
- Discharge Pressure, Rate, Total and Temperatures for all components

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Well Bore Diagram



 datavan-4

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