

LIMESMARTMISSILE



LIME INSTRUMENTS

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LIMESMARTMISSLE is a smart manifold system that accurately monitors the fluid flow between a blender and the pumps on a pressure pumping job.

- Able to report flow conditions such as cavitation, sand slugs, iron failures, sanding off, dead heading.
- Suction valve automation and feedback.
- Identification of pump location on the manifold.
- Pump communications cabled directly to the LIMESMARTMISSLE reduces the amount of required pump cables on a job site.
- Standard Ethernet and CAN bus communications for easy integration with control systems.

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LIMESMARTMISSILE REAL-TIME ELUID MONITORING

The LIMESMARTMISSLE system integrates with your equipment to provide real-time flow measurements between the blender and pumps which enables operators to improve operational efficiencies, equipment maintenance, and worker safety.







General Specs

| Operating Temp | -40 C to +70 C |
|---|---|
| DAS Box Enclosure | Stainless Steel |
| Available Options | |
| Base DAS Package | 2 x 15k PSI transducers 4 x 300 PSI transducers 4 x 8" magnetic flow meters |
| Advanced Monitoring and Analytics | 4" suction side magnetic flow meters at each pump |
| Valve Control | Air actuated valve control from inside van (8,10,12,16, & 20 station) |
| Manifold Pump Connection Network Box | Pump communication bulkheads and network box move from the van to the manifold and communicate with van through redundant cables to eliminate extra cables on location |

Flow Management - Fluid End Protection

- Data van pump operator is able to detect flow problems between blender and pumps in real time
- Detectable flow problems: cavitation, sand slugs, iron failure, sanding off, dead heading, etc.
- Reports flow conditions at multiple locations on the manifold

Safety

- Remote operation of the suction valve in the event that a pump needs to be shut in
- Improved safety by removing the need to send personnel into the high pressure zone
- Helps prevent fluid spills

Valve Protection

- Interlocks prevent pumping into a closed or partially closed discharge valve
- Reduces damaged iron due to pumping into closed valve
- Reduces the risk of washing out valves

Improved Spread Performance

- Pump efficiency tracking reduce maintenance cost and improved stage performance
- Improved head loss calculations for better pump protection in low supply situations
- Measured fluid totals produce more accurate downhole delivery without relying on calculations
- Automatic pump importing at their proper position on the manifold
- Reduced length of comms cables and better cable management with pumps connecting directly to the manifold















BUILDING LEADING-EDGE CONTROLS AND INSTRUMENTATION SYSTEMS