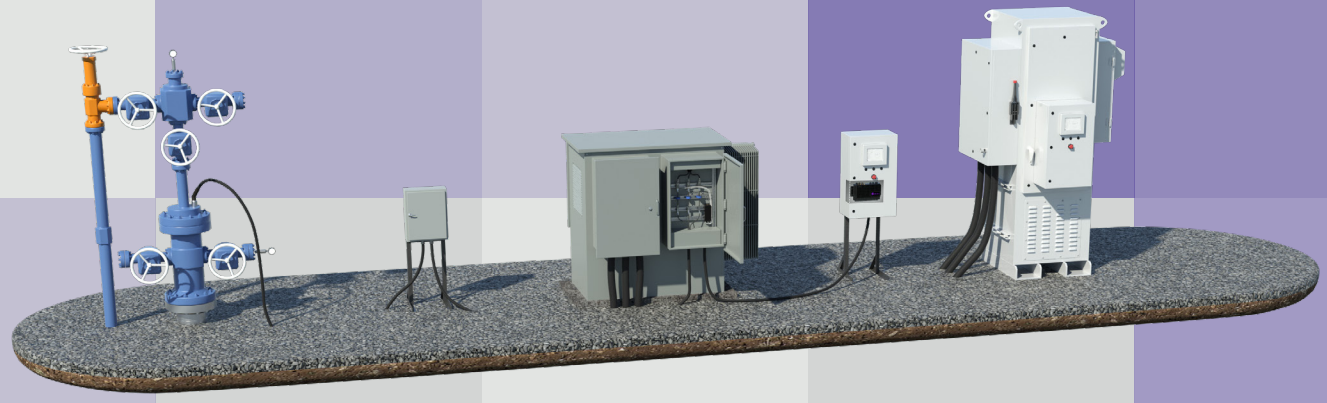
SENSIA

+ DIGITAL SOLUTIONS

INSTRUCT Power Analyzer 2.0

Increase ESP motor efficiency with voltage tuning



INTELLIGENT ACTION

From intelligent insight to seamless operations

Introducing our next generation INSTRUCT Power Analyzer 2.0

INSTRUCT Power Analyzer 2.0 provides an enriched and scalable system that seamlessly integrates with various power applications, offering intelligent insights to enhance your operational efficiency.

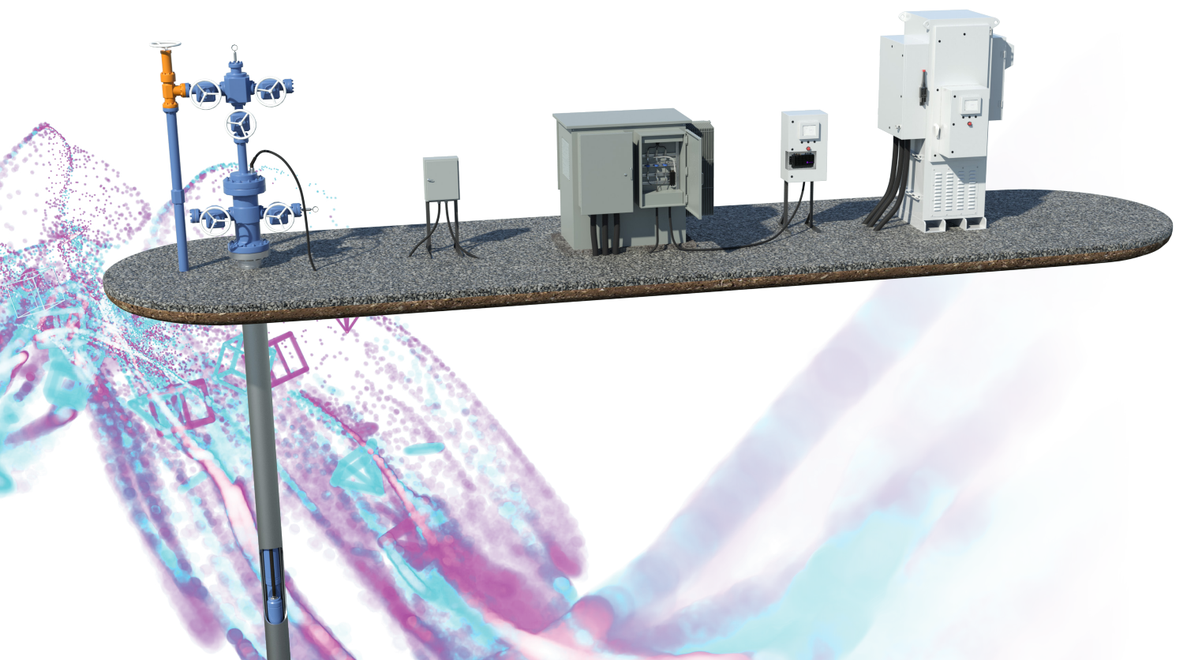
INSTRUCT Power Analyzer 2.0 provides more than 300 Edge Module Outputs, including:

+ Input power
+ Real-time shaft torque
+ Shaft speed
+ Motor and system efficiency
+ Power factor
+ And much more

These outputs enable you to perform crucial analyses such as Power Quality Monitoring, System Condition Monitoring, True Shaft Speed and Torque, Independent Backspin Monitoring, and many more.

Universal compatibility
Works with every maker and model of VSD, MVD, or Switchboard and downhole motor**

** requires detailed motor parameters to enable shaft torque and motor efficiency calculations.



Drive efficiency with INSTRUCT Power Analyzer 2.0

Optimize power and save energy

Through intuitive visualization tools, INSTRUCT Power Analyzer 2.0 illuminates the potential efficiency gains achievable by fine-tuning the V/Hz ratio. You can even observe motor efficiency plotted against motor voltage at a fixed load, revealing the precise adjustments required to maximize energy savings.

INSTRUCT Power Analyzer 2.0 also provide insights into how you can optimize motor voltage dynamically to ensure peak performance under varying load conditions, contributing to long-term sustainability goals. By delivering real-time data insights, INSTRUCT Power Analyzer 2.0 empowers you to make informed decisions to maintain optimal efficiency as operating conditions evolve, aligning with sustainable initiatives.

Prevent costly failures with proactive action
Redefine reliability and minimize risks with the proactive failure prevention features made possible by INSTRUCT Power Analyzer 2.0.

Detect potential mechanical wear issues before they escalate, thanks to the ability to identify anomalies such as shaft vibration fluctuations. By addressing these issues early, the system helps you to extend equipment lifespan and reduce costly downtime.

INSTRUCT Power Analyzer 2.0 also allows you to mitigate electrical system risks by monitoring tri-phase electrical balance in real-time – ensuring timely intervention to avoid premature downhole gauge or motor failures caused by imbalance in load or supply. With its proactive approach to risk management, the INSTRUCT Power Analyzer 2.0 allows you to safeguard system integrity and prevents disruptions, ensuring uninterrupted operation while maximizing efficiency.

Stay ahead with prognostic health monitoring
Stay ahead of maintenance needs and ensure continuous operations with the INSTRUCT Power Analyzer 2.0's comprehensive capabilities. Monitor shaft vibration and electrical currents in real time, leveraging early warning indicators to detect potential failures before they occur. Additionally, monitoring the electrical insulation conditions over time is crucial for effective prognostics. Components like cables, splices, motor windings, and connectors face constant electrical stress during operation. By observing these parameters throughout the ESP run life, you gain valuable insights into the system's health, enabling early detection of potential issues and ensuring reliability.

With the accurate data and insights provided by the INSTRUCT Power Analyzer 2.0, make informed decisions that drive proactive maintenance strategies, maximizing equipment uptime and minimizing downtime. Deploy the INSTRUCT Power Analyzer 2.0 globally to consistently monitor and optimize industrial operations, ensuring efficiency and reliability across diverse environments.

Built for today.
Ready for tomorrow.
Powered by Avalon.

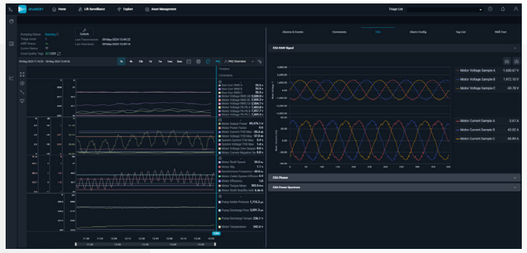
Powered by the robust foundation of HCC2 and Avalon, INSTRUCT Power Analyzer 2.0 capture more than 300 crucial data tags. This data becomes a valuable resource for optimizing current performance and future-proofing your power management strategies. Experience considerable whole-life cost savings as you expand from monitoring a few systems to covering your entire operation.

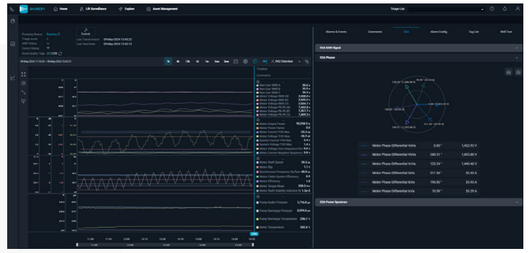
Effortless integration with Avalon Lift Surveillance
Avalon Lift Surveillance unites a range of artificial lift applications to drive Sustainable Intelligent Action across your production operations.

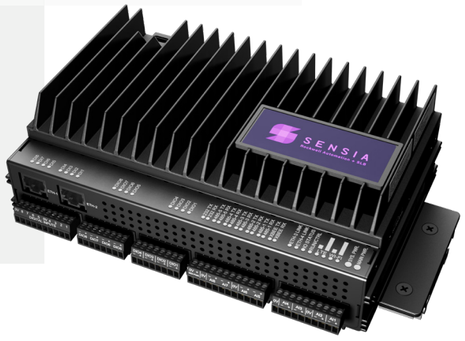
By integrating seamlessly with Avalon Lift Surveillance, INSTRUCT Power Analyzer 2.0 brings the power of state-of-art visualization or analysis to your operation – in the cloud or on-premises.

Avalon Lift Surveillance includes new screens and dashboards that help your team get the most cutting-edge data, quickly implement improvements to your operations, and detect concerning operations before they become a bigger problem.

Avalon Lift Surveillance enables you to leverage easy-to-use tools to generate automated workflows and improve your operation's efficiency, speed, and security. Avalon Lift Surveillance has predefined workflows for artificial lift operations that empower you to effectively achieve your operational and financial objectives by taking proactive action for the continuously changing conditions throughout the life of your wells.







INSTRUCT Power Analyzer 2.0

POWERED BY
AVALON

INTELLIGENT ACTION

Solving challenges from the reservoir to refinery. One challenge at a time.

We collaborate with all stakeholders to make the production, transportation and processing of oil & gas simpler, safer, more secure, more productive and better understood from end-to-end. Sensia is making the advantages of industrial-scale digitalization and seamless automation available to every oil & gas company.

Now every asset can operate more productively and more profitably.

Sensia LLC
Energy Tower IV, 15th floor, 11750 Katy Freeway
Houston, TX 77079

+1-866-7SENSIA (+1-866-773-6742)

hello@sensiaglobal.com
sensiaglobal.com