OptiLift iNOC

Intelligent Net Oil Computer

Features and Benefits

Rockwell Automation provides a comprehensive range of solutions for the oil and gas industry that integrate seamlessly into your existing system.

The OptiLift™ iNOC helps achieve continuous operations and optimizes production while maximizing your return on investment in a well testing environment. This engineered-to-order (ETO) solution is easy to install, configure, use and maintain, plus features excellent reliability. OptiLift iNOC features include:

- Maintain your OptiLift iNOC remotely with a high-performance controller (rDAC iXC2) web server and benefit from online firmware updates
- Enhance visualization with PanelView™ Plus 7 Performance HMI equipped with graphics, alarms and warnings
- Improve connectivity with a ConnectedProduction™ footprint to support a remote digital oilfield environment
- Optimize testing capacity for 1-7 wells and up to 7 tests per well when connected to a multi-port selector valve (MSV)
- Improve testing duration with oil and water volume prediction for 24 hours during any testing period
- Upgrade communication efforts with reports that are generated in .html, .csv or using Modbus interface

Support your oilfield with an engineered-to-order solution that is reliable and easy to maintain.

Optimize Well Testing for Multiple Sources with Real-Time Data

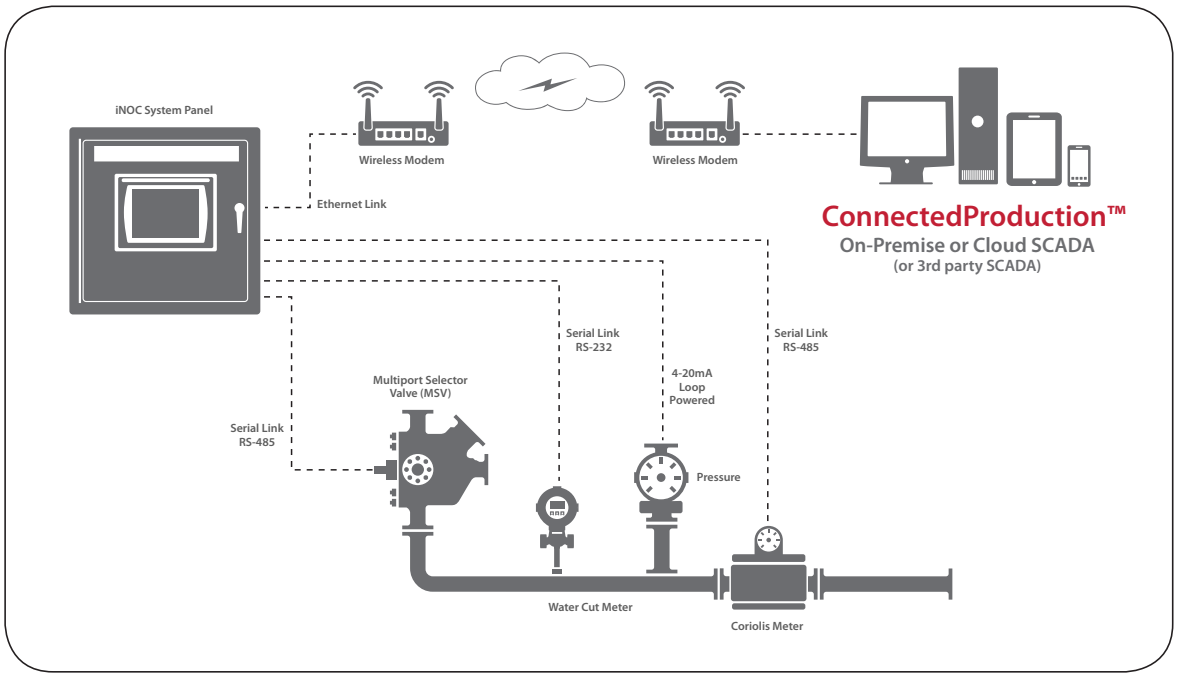
In a modern day oilfield, enterprise-wide communication is imperative to running a productive operation. Making improvements in your production process can lead to efficiencies resulting in increased uptime, improved communications and better resource management. Optimizing your well testing protocol can garner better results, enhanced data and a more efficient use of time during testing.

Our Intelligent Net Oil Computer (iNOC) is a measurement solution for automated well testing. The iNOC system installs in the "liquid leg" of a two-phase test separator and can control the testing sequence from multiple sources via a multi-port selector valve (MSV). Leveraging intelligent remote terminal unit (RTU) technology, the data calculates on-site in real-time and brings the two well-flow stream phases together. The data logs in the RTU and transmits to the ConnectedProduction™ system, third-party SCADA or any pre-defined location.

The solution uses line pressure, line temperature and Coriolis mass flowmeter signals as input data to perform the calculations. The iNOC system estimates water cut online, reducing laboratory test costs. The iNOC algorithm calculates the oil, water volume/mass, flow rates and water cut using reference conditions based on line condition inputs received from the corresponding instrumentation. The solution performs liquid volume correction by temperature, based on specifications in the Manual of Petroleum Measurement Standards. To assist you in authenticating your well test accuracy, lab data averages provide a comparison.

Customize your iNOC system with IEC 61131 user programming and benefit from flexible communications using native EtherNet/IP, Modbus TCP, Modbus RTU, Enron Modbus, DNP3 or MQTT.

OptiLift iNOC System Architecture



OptiLift iNOC Product Specifications

General Specifications	
Cabinet	• 18 in. H × 20 in. W × 11.5 in. D • Four cord grips that are installed from factory
Certification	• UL 508A
Local Operator Interface	• PanelView™ Plus 7 Performance 7 in. full-color touch screen graphics terminal
Power	• 100-240 V AC, 50/60 Hz
Operating Environment	• NEMA3R • Humidity range 5 to 85%, non-condensing • Base temperature range is -20 °to +60 °C (-4 to +140 °F) • Heating options extend temperature range from -40 to +60 °C (-40 to +140 °F)
System Hardware	
I/O Interface	• 4-20 mA analog input (pressure instrument). 0-5V DC also supported
Communication Ports	• Ethernet • Serial RS232/RS485 (Coriolis meter, pressure sensor, water cut meter) • Wireless Messaging Protocol (WMP) gateway, supports up to ten Rockwell Automation transmitters
Communication Protocols	• EtherNet/IP, Modbus TCP, Modbus RTU, DNP3, MQTT, Enron Modbus

For more information or to contact your local sales office or distributor, visit www.rockwellautomation.com/distributor.

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