

Plunger Lift Solution

Benefits

The Rockwell Automation® OptiLift™ Plunger Lift (PL) is a pre-engineered artificial lift solution that is designed to help achieve optimized production of remote single well sites or multi-well pad sites. Your engineering staff can realize the following benefits:

- Manage plunger lift control, flow measurement and communications from one controller using EtherNet/IP, Modbus TCP, Enron Modbus, DNP3 or MQTT protocols
- Configure open/close criteria like critical velocity, minimum casing pressure, automatic exclusion or sensor health
- Control the plunger within rated speed for efficient liquid lift and help minimize off time while continuing to cycle the plunger successfully
- Improve report data with cycle, daily, monthly and lifetime logs detailing open/close codes and optimization adjustments per cycle
- Customize to your oilfield using IEC 61131 programming standards
- Meets custody transfer flow metering per standards AGA 3, 7, 8 and API 21.1
- Realize reduced lifting and maintenance costs



OptiLift™ PL gives you the control, flow measurement, and communications you require with one controller.

A Cost Effective Way to Optimize Well Production

Early in the life of a well, reservoir pressures are high and wells naturally flow, removing the fluids from the well. As wells mature and reservoir pressures decline, liquid loading occurs in the tube impeding gas production. A plunger lift is one of the most economical ways to minimize liquid accumulation and facilitate deliquification in aging wells. A plunger lift solution uses built up reservoir pressure to lift a plunger to the surface, removing fluids from the tubing and allowing gas production.

OptiLift PL is a pre-engineered artificial lift solution for single remote wells and as an option on the Well Manager multi-well solution.

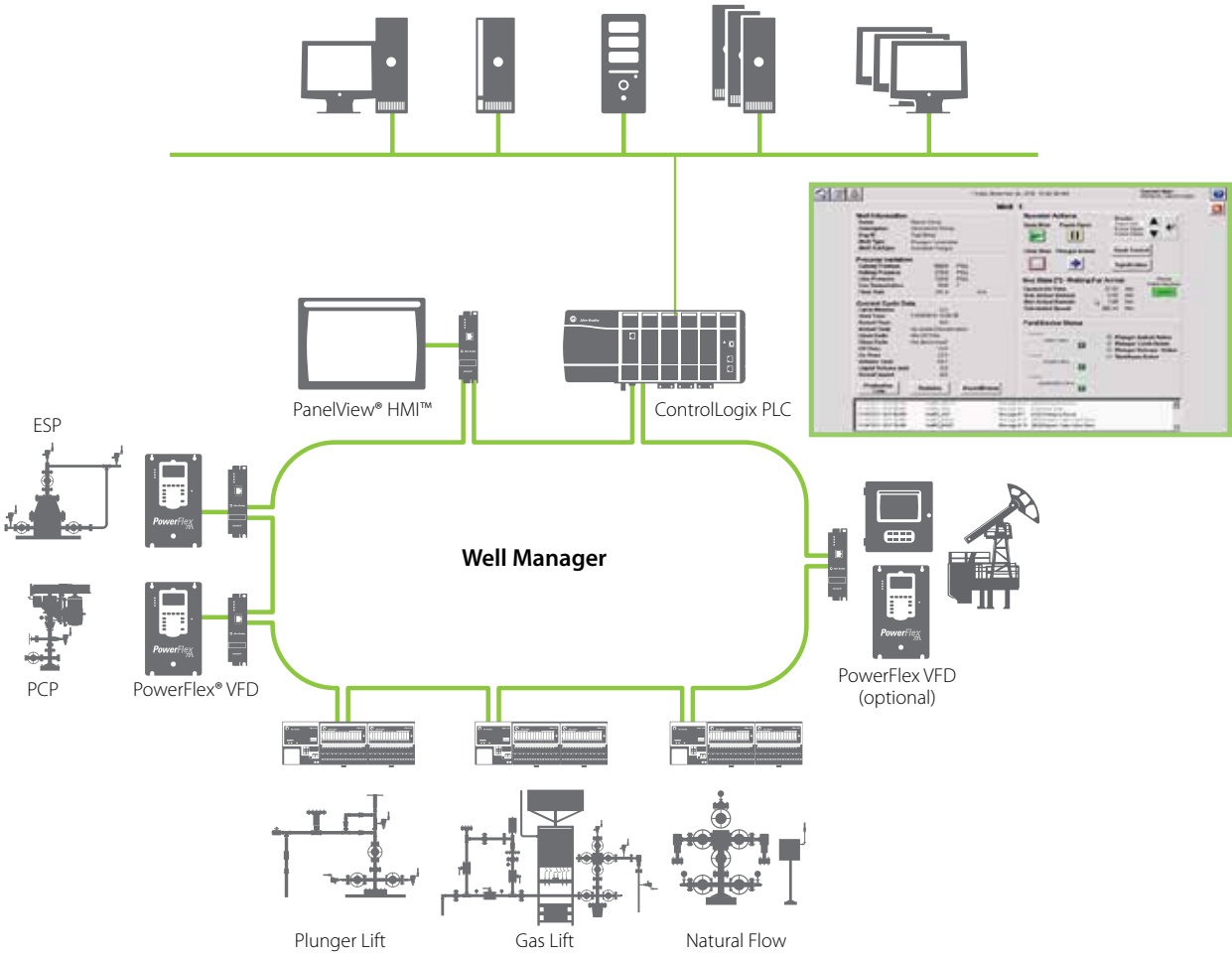
The Rockwell Automation® OptiLift™ Plunger Lift (PL) solution is for single-well remote site applications. It is a pre-programmed packaged solution that includes an enclosure, HMI, solar power source and configurability options like custody transfer flow measurement and multiple communication options. Extensive user customization is possible using the rDAC Workbench programming environment.

Well Manager can configure up to 32 artificial lift operations controlling multiple plunger lifts, sucker rod pumps, gas lifts, ESP, PCP and natural flowing wells. This option controls up to 80 custody transfer flow runs for gas or liquids. Customization is available using RSLogix 5000® software and ControlLogix® or CompactLogix™ controllers.

In both single and multi-well applications, OptiLift PL runs through one controller and uses Ethernet protocols to connect to your SCADA system.

LISTEN.
THINK.
SOLVE.™

Well Manager Architecture and Reporting Screen



OptiLift PL Standard Configurations

Standard Configurations	
Well Manager Catalog Numbers	<ul style="list-style-type: none"> • 1759-PAC-16WellManager (16 artificial lift operations and 32 flow runs) • 1759-PAC-32WellManager (32 artificial lift operations and 80 flow runs)
OptiLift PL Remote Site Plunger Lift Controller (Engineered to Order)	<ul style="list-style-type: none"> • 1711-P07PL4 OptiLift PL Remote Site Plunger Lift Controller (multiple options available – engineered to order)
SCADA Host Communications	
Ethernet Protocols	<ul style="list-style-type: none"> • EtherNet/IP, Modbus TCP, Enron Modbus, DNP3, MQTT
Serial Protocols	<ul style="list-style-type: none"> • Modbus RTU, Enron Modbus, DNP3

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