Schlumberger

Rod Pump Controller

Pumpoff control and advanced modeling for sucker rod pump systems

APPLICATIONS

- Automated control of sucker rod pump starting and stopping

BENEFITS

- Optimizes pump regulation to increase production and prevent equipment damage
- Improves efficiency and economics of operation
- Reduces travel to the wellsite through remote monitoring

FEATURES

- 115 or 230 V AC input supply (460 V optional)
- Rugged NEMA 4R polycarbonate enclosure
- Backlit graphic display and keypad
- Multiple analog and digital inputs and outputs, with four configurable I/O points
- Comprehensive monitoring and reporting to facilitate troubleshooting
- Polished rod load cell, beam position inclinometer, optional tubing and casing pressure sensors
- Automatic counterbalance check
- Oil, belt, and gearbox service reminders
- Wired local and remote serial ports, ANSI® and Modbus® RTU protocols
- Bluetooth® interface option,
- MaxStream™ wireless radio option, cellular and satellite options

The RPC provides real-time surface and downhole dynamometer plots.

The rod pump controller (RPC) provides economical pumpoff control of sucker rod pumping systems. Using sophisticated modeling and control software and a powerful digital signal processor, the RPC computes surface and downhole conditions to best regulate the starting and stopping of the pump via a separate motor controller.

The RPC provides real-time surface and downhole dynamometer plots, daily gauging, fault and event logging, a user-configurable data sampler, and more. Displayed data include gearbox torque; rod load, position, and velocity; pump load, position, velocity, fill, and stroke; fluid level; daily fluid production; and pressures.

Comprehensive monitoring and reporting capabilities

The RPC provides real-time surface and downhole dynamometer plots, daily gauging, fault and event logging, a user-configurable data sampler, and more.

Equipped with both web-based and smartphone interfaces, the RPC can generate well reports and dynacards from either interface. Wireless, radio, cellular, and satellite options allow monitoring at any distance. With optional web-based telemetry software, users can monitor multiple fields simultaneously from virtually anywhere in the world. Key parameters can be remotely adjusted, eliminating the need for a trip to the wellsite.