

## Rod Pump Controller (RPC)

Reliable and economical pumpoff control for sucker rod pump systems through advanced modeling

### 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<sup>®</sup> and Modbus<sup>®</sup> RTU protocols
- Bluetooth<sup>®</sup> interface option,
- MaxStream<sup>™</sup> wireless radio option, cellular and satellite options



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

The Schlumberger 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 (DSP), the RPC computes surface and downhole conditions to best regulate the starting and stopping of the pump via a separate motor controller.

Feedback from a load cell, inclinometer, and current sensors enables the RPC to measure rod load, rod position, and motor torque. Four configurable I/O points with plugin converters accommodate a wide variety of AC and DC voltages, as well as relay contact outputs.

### 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. Displays include gearbox torque; rod velocity, position, and load; pump velocity, position, fill, stroke, and load; fluid level; daily fluid production; and pressures.

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. An antenna connection is provided.