

WellPilot® Rod Pump Optimization Controller (RPOC) - Fixed Speed

Applications

Reciprocating rod-lift wells

Features and Benefits

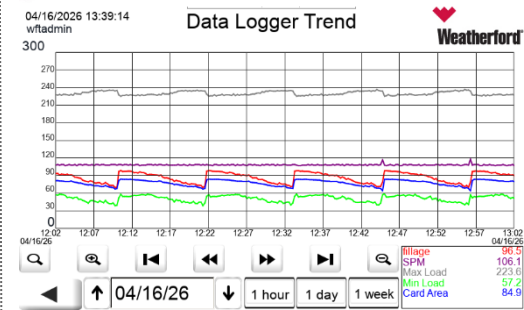
- Flexible Control Modes: Idle time, timer, injection timer, maintenance, override, and third-party speed control for adaptable operation across changing well conditions
- Retrofit enables:
 - VSD Optimization and Efficiency: Pump fillage control, inter-stroke speed trim, and performance tracking to maximize production and reduce energy use
 - Load, Speed, and Safety Control: Rod-load management for heavy or viscous fluids
- Surface and Downhole Monitoring: Card area control for downhole issues, and real-time monitoring of load violations, beam loading, gearbox torque, rod stress, WHP, and vibration to protect equipment and improve uptime
- Rod Rotator Integration: Intelligent monitoring and control when equipped to extend rod and tubing life
- Operational and Performance History: Up to 120 days runtime and production data, 60 days of PIP, fluid level, stroke data, polish-rod loads, plus VSD performance history to support optimization and decision-making
- Diagnostics and Troubleshooting: Event and alarm history records, surface and downhole cards, data logging of operational parameters with trending, and pump-valve analysis to accelerate issue identification and resolution
- Data Visualization and Advanced Capture: Trend viewer and per-stroke operational and card data with ForeSite® Edge IoT-enabled automation when equipped for deeper performance insights
- Autonomous Optimization: Built-in control algorithms with ForeSite Edge automation when equipped with self-optimizing performance for minimal intervention

Data Access

Communications and connectivity: Baker 8500 and Modbus RTU protocols enable standard host communication and retrieval of surface and downhole dynamometer card data, with webserver and mobile app access supporting local and remote monitoring and control

Temperature Rating	-40 to 131°F (-40 to 55°C)
Dimensions (HxWxD)	17.12 x 15.8 x 7.8 in (43.4 x 40.1 x 19.8 cm)

Main processor board	10 to 15 Vdc
Assembly power supply	100 to 240 Vac



WellPilot RPOC comes with features enabling enhanced rod-pump production, extended uptime, and automated adjustments for changing reservoir conditions.

Inputs/Outputs

Load cell input	1
Inclinometer input	1
Ethernet port	1
Serial ports	3
Analog inputs	2
Analog output	1
Digital inputs	2
Relay outputs	2
Turbine meter input	1
Expandability	6 analog inputs 6 digital inputs 6 digital outputs

