



# Innovative Solutions for the Oil and Gas Industry

Serving the oil and gas industry for over 30 years, Unico provides application-engineered variable speed drives (VSDs) and controls to optimize production, protect pumping equipment and reduce energy consumption in sucker rod, electric submersible and progressing cavity pumping systems.

Design and build LRP® and CRP® revolutionary Artificial Lift Systems.



# Intelligent Pump Controls

Intelligent application-engineered controls that optimize production, protect pumping equipment, and manage energy usage in sucker-rod, electric submersible, and progressive cavity pumping systems.



## SRP VSD (Sucker-Rod Pumps)

- Variable-speed drive (VSD) with embedded SRP control
- Models pumping system
- Sensorless capability
- Pump speed control
- Pump fill control
- Pump Clean™
- Rod load control
- Automated Valve Check
- Bridle separation control
- Power management
- Real-time surface and downhole dynamometer plots
- Fluid level monitor
- Production monitors
- Gearbox monitor and limiters
- Counterbalance monitor
- Automatic restart
- Comprehensive reporting
- Data communications
- Supports all rod pumping units
- Can control induction or PM motors of all types
- Predictive surface and down hole dynamometer plot modelling



## ESP VSD (Electric Submersible Pumps)

- Variable-speed drive (VSD) with embedded ESP control
- Models pumping system
- Sensorless capability
- Pump speed control
- Fluid level control
- Pump-off control
- Backspin detection
- Automatic restart
- Energy optimizers
- Production monitors
- Fluid level monitor
- Pump in-take pressure monitor and control
- Gas lock control
- Pumping equipment protection
- Electronic current recording charts
- Data communications
- Stuck pump starting mode
- Can control induction or PM motors of all types



## PCP VSD (Progressive Cavity Pumps)

- Variable-speed drive (VSD) with embedded PCP control
- Models pumping system
- Sensorless capability
- Pump speed control
- Fluid level control
- Pump-off control
- Patented backspin control
- Superior power loss ride-through
- Automatic restart
- Energy optimizers
- Production monitors
- Pumping equipment protection
- Stick-slip detection
- Data communications
- Rod overload protection
- Downhole modelling
- Can control induction or PM motors of all types



## RPC (Rod Pump Controller)

- Economical pump-off control and monitoring
- Models pumping system
- Adaptive pump fill trigger level
- Timer controller
- Automatic restart
- Utility rate saver
- Real-time surface and downhole dynamometer plots
- Comprehensive reporting
- Data sampler
- Data communications
- Designed for harsh oilfield environments
- Supports all rod pumping systems
- Pump speed control
- Predictive surface and down hole dynamometer plot modelling



# Revolutionary Artificial-Lift Systems

Unique artificial-lift systems that optimize performance by combining superior controls with innovative mechanical designs.



## LRP® (Linear Rod Pump)

- Beam pump alternative
- Simple direct-drive mechanics
- Easy to transport, install and start up
- Aesthetically unobtrusive
- Safe with no exposed moving parts
- Unrivaled downhole equipment protection
- Pump Clean™ mode
- Incorporates Unico SRP control



## CRP® (Crank Rod Pump)

- Beam pump alternative
- Short stroke unit for low flow and shallow wells
- Ultracompact, direct-drive design
- Wellhead mounting
- Easy to install
- Quiet and unobtrusive
- Power demand leveling
- Incorporates Unico SRP control
- Ideal for solar powered installations

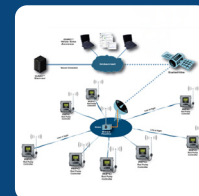
# Remote Monitoring

Advanced monitoring solutions that simplify the collection and accessibility of information essential to your operations.



## UEdit® Diagnostic Software

- VSD or RPC interface software for a computer
- Modify and archive setups
- View drive data, fault logs
- Emulation of drive's Graphical keypad-display
- Well performance report on demand
- Live Charting Capability
- Connect to VSD or RPC locally or remotely



## SCADA Connection

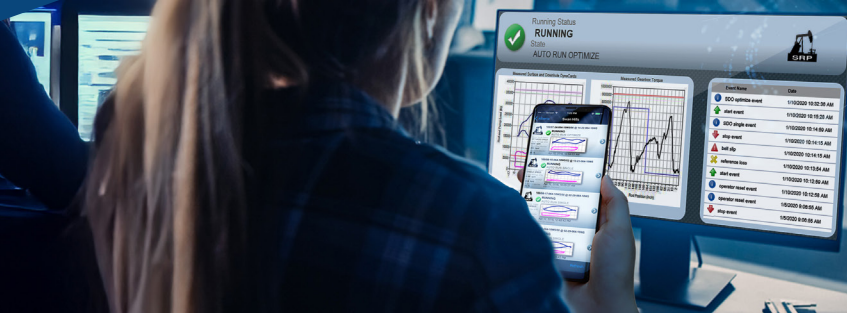
- Supporting all head-end software
- Ethernet TCP/IP connectivity
- Modbus RTU connectivity
- Real-time monitoring, analysis, alarming, and reporting of well information
- Well performance report on demand



## UTerm™ Mobile App

Locally or remotely monitor and control Unico VSDs and RPC controller from iOS devices

- Modify setups, view drive data, events, charts and reports
- Emulates drive Graphical keypad-display
- Ability to generate well report
- Wireless local Wi-Fi connection capability



# Remote Power Integration

Software functions in the VSD firmware for alternative powered systems optimization.



## Solar (Solar-Powered Systems)

- Flat Power™ algorithm for maximum solar utilization
- Voltage Regulator and maximum power unit tracking (MPPT)
- Unico VSDs support direct connection to solar array



## Gen Set (Gaseous Engine Power Systems)

- Flat Power™ algorithm in the VSD firmware can reduce fuel consumption, reduce emissions and extend the life of the engine
- Unico VSD can control speed of engine based on power demand
- Unico RPC controller can sequence and control gen sets



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