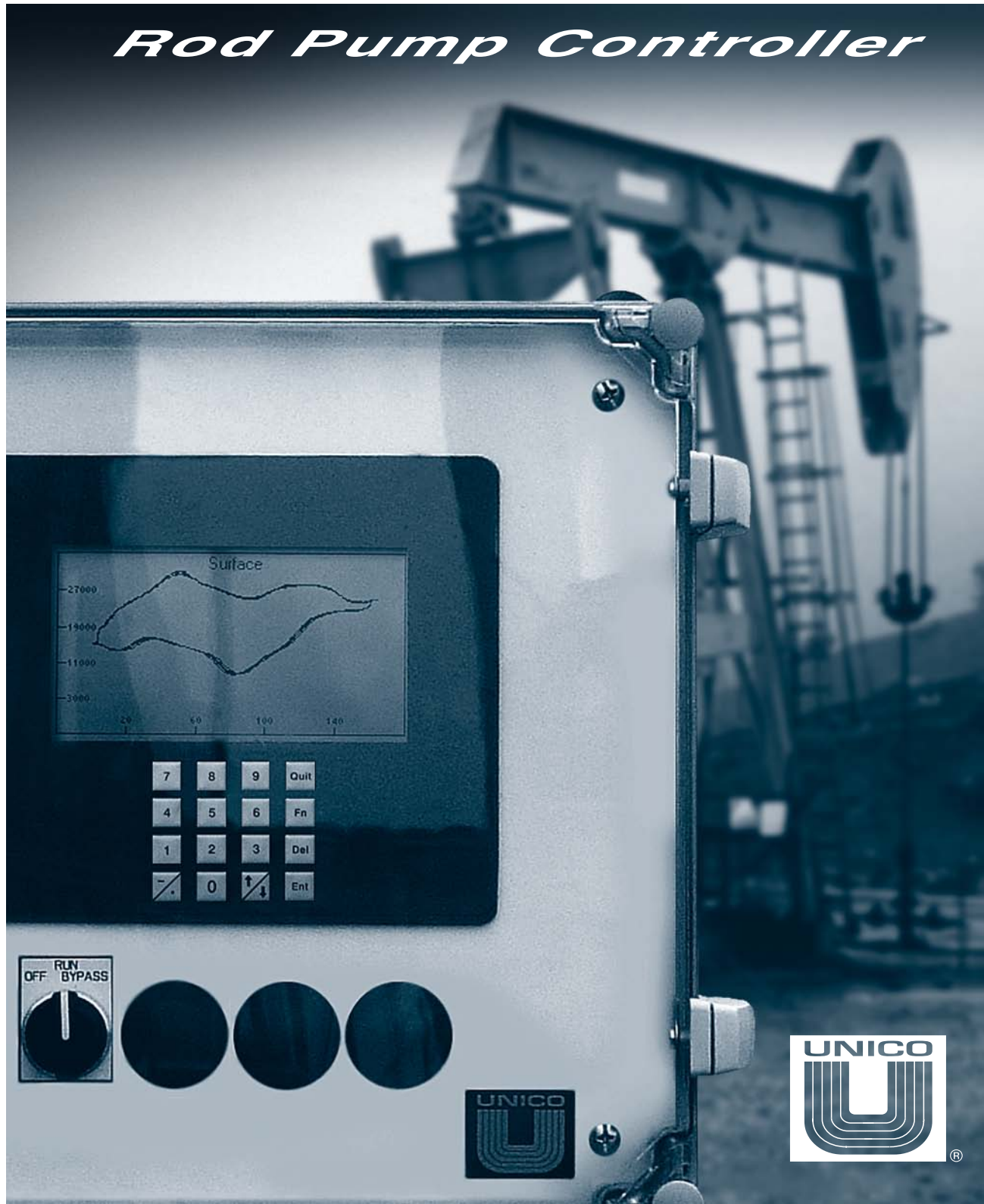


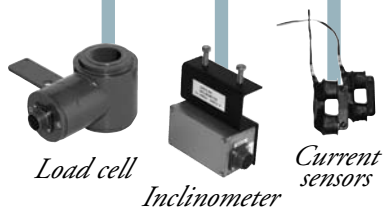
R P C

Rod Pump Controller



*Advanced
monitoring and
control of
sucker-rod
pumping units*





The RPC controller accepts feedback from a load cell, inclinometer, and current sensors to measure rod load, rod position, and motor torque. The unit is shown with an optional cellular modem for remote telemetry. An antenna connection is provided. Four configurable I/O points with plug-in converters accommodate a wide variety of AC and DC voltages as well as relay contact outputs.

Overview

The Unico RPC Rod Pump Controller provides economical pump-off control of sucker-rod pumping systems. Using sophisticated modeling and control software and a powerful digital signal processor (DSP), the RPC controller computes surface and downhole conditions to best regulate the starting and stopping of the pump via a separate motor controller. Comprehensive monitoring and reporting capabilities provide real-time surface and downhole dynamometer plots, daily gauging, fault and event logging, a user-configurable data sampler, and more. Wireless, radio, cellular, and satellite options allow monitoring at any distance. With optional GMC™ Web-based telemetry software, users can monitor multiple fields simultaneously from virtually anywhere in the world. RPC units are rugged and have been designed to withstand the harsh environments of the oil patch.

Features

Hardware

- 115/230 V AC supply input
- Optional 460 V AC supply input
- Weatherproof design
- Rugged Nema 4R polycarbonate enclosure
- Extended temperature range
- Backlit graphic display/keypad
- Mass memory option

Inputs/Outputs

- Three isolated analog inputs
- Two isolated analog outputs
- Twelve logic inputs
- Six logic outputs
- Four configurable I/O points

Sensors

- Polished rod load cell
- Beam position inclinometer
- Tubing pressure sensor option
- Casing pressure sensor option

Communications

- Wired local/remote serial ports
- ANSI and Modbus RTU protocols
- Bluetooth interface option
- MaxStream wireless radio option
- Cellular modem option
- Satellite communication option

Control

- Supports all SRP pump types
- Pump-off control
- Timer controller
- Automatic restart capability
- Utility rate saver
- Adaptive pump fill trigger level
- Automatic counterbalance check
- Oil/belt/gearbox service reminders
- IEC 1131 programmable logic
- Pumping system simulator

Displays

- Surface and downhole dynamometer graphs
- Predicted surface and downhole dynamometer graphs
- Counterbalance assistant
- Gearbox torque
- Rod velocity
- Rod position
- Rod load
- Pump velocity
- Pump position
- Pump load
- Pump fill
- Pump stroke
- Daily fluid production
- Daily leakage loss
- Daily average pump fill
- Daily average pump speed
- Pump intake pressure
- Discharge pressure
- Tubing pressure
- Casing pressure
- Fluid level
- Fluid flow

Data Collection/Reporting

- Well production/performance report
- Time-stamped event/fault logging
- Time-stamped user-definable data sampler
- Gearbox torque/as-balanced gearbox torque graphs
- IPR curve graph
- Web-based monitoring/control
- Third-party head-end software interface (Case, Theta)

UNICO-Worldwide

Corporate Headquarters

UNICO, Inc.
3725 Nicholson Road
P. O. Box 0505
Franksville, Wisconsin
53126-0505
USA

voice: 262.886.5678
fax: 262.504.7396

www.unicous.com

United States

New Lenox, Illinois
815.485.5775
Wixom, Michigan
248.380.7610
Austinburg, Ohio
216.387.8486
Midland, Texas
432.218.7665
Sandy, Utah
801.942.2500

South America

El Tigre, Venezuela
58.283.241.4024
Maracaibo, Venezuela
58.261.792.4047

Europe

Milton Keynes,
England
44.1908.260000
Wilnsdorf, Germany
49.2739.303.0

Canada

Mississauga,
Ontario
905.602.4677

Asia

Beijing, China
86.10.6218.6365
Osaka, Japan
81.66.945.0077
Cavite, Philippines
63.46.434.9618



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