

Realift

Rod Pump Controller



Improving reliability and energy efficiency

Schneider Electric offers Realift™ Rod Pump Control (RPC), an expandable and easy-to-use rod pump solution that enhances production for one or two pumps through advanced extraction control, helping to:

- Optimize production
- Reduce operational expenses
- Improve pump efficiency
- Extend equipment life
- Reduce risk to people and equipment
- Decrease energy consumption
- Streamline data collection, sharing, and analysis
- Increase flexibility with provision of a second resource to manage customized programs

Designed to reduce cost of deployment and total cost of ownership, the Realift Rod Pump Control solution can be tailored to your installation. Realift solutions enhance simple to complex rod pump control, providing downhole, surface, torque, and timed modes.



Green Premium™ ecolabel
product – Sustainable
performance, by design

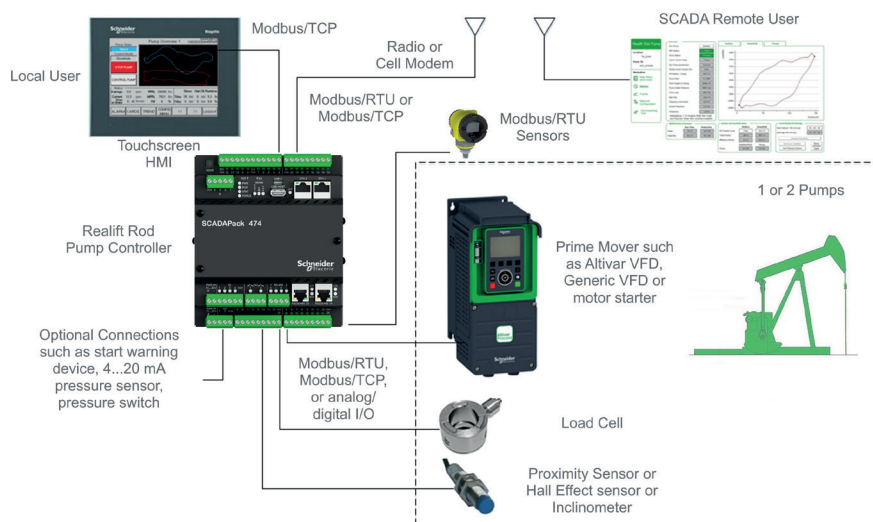
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The SCADAPack™ 474 Smart RTU-based RPC offers a fully robust and open automation platform for controlling and monitoring rod pump well sites. This solution is ideal for wells that require rod pump control and well site automation. This solution is also suited for stripper wells, where operators are looking for a cost-effective solution to monitor their well production and obtain accurate records of rod pump operations.

The SCADAPack RTU-based platform offers many features, including:

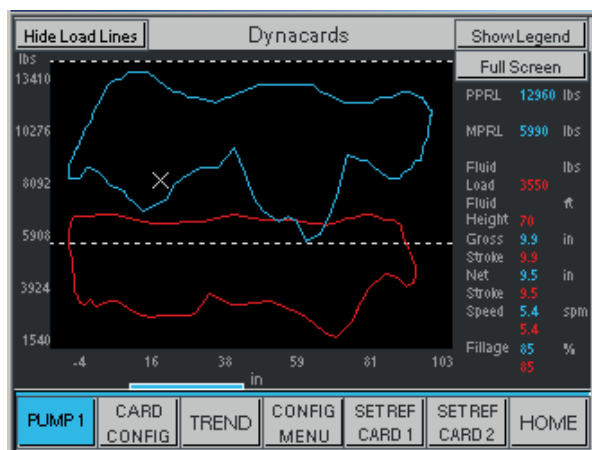
- A state-of-the-art, dual-core, 32-bit processor RTU
- Downhole, surface, and timed control modes
- Two available IEC-61131 tasks to develop custom well site applications and extensions
- Ability to add extra IOs to manage additional well site instruments
- Optional Realflo™ flow computer integration
- Stop/start control of non-electric motors and across-the-line starters, based on well conditions



SCADAPack controller-based solutions may be used with Altivar™ Variable Speed Drives, Altivar Process Drives, and many other third-party drives¹.

The platform offers flexible communication:

- EcoStruxure™ Geo SCADA Expert software, pre-configured to commission and monitor² your rod pump control solution
- Supports other leading third-party artificial lift and interface software such as LOWIS®, XSPOC and Kepware®
- Cell phone and tablet support using Vijeo™ Air app
- Available HMI application for Magelis™ HMIGTO2310 and HMISTU855



Footnotes: 1. For information on the Drive Solution, please contact your local **Drive expert**.

2. With purchase of EcoStruxure Geo SCADA Expert license.

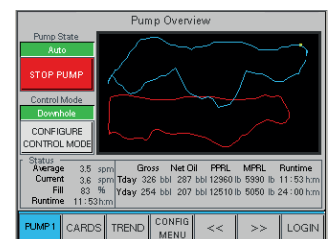
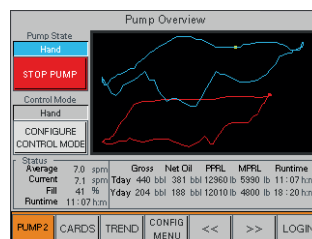
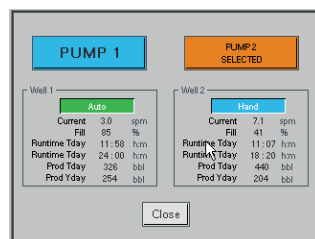
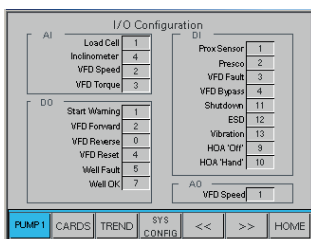
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Specifications – SCADAPack 474 Rod Pump Controller

General characteristics

Controller Platform	SCADAPack 474
Input Voltage	- Rated Voltage 14...29 Vdc - Turn-on 10...11.5 Vdc - Turn-off 9...10 Vdc
Controller Dimensions	142 mm w. x 166 mm h. x 88 mm d. (5.59 in. w. x 6.54 in. h. x 3.46 in. d.)
Environment	-40...70 °C (-40...158 °F) operating temperature when the unit is mounted horizontally on a vertical surface -40...65 °C (-40...149 °F) operating temperature when the unit is mounted in any other position -40...85 °C (-40...185 °F) storage temperature 5...95% relative humidity, non-condensing - Pollution Degree 2, Installation Category I, Indoor use
Control	- Determine optimal speed in downhole, surface, and timed control modes - Intelligent pump-off management automatically adjusts pumping time and downtime in accordance with well performance
Protection	- Offers user-configurable alarms for pump behavior such as belt slip, imbalance, torque, fluid load, belt slippage, MPRL/PPRL, casing pressure, tubing pressure, malfunction load, motor speed, pressure switch, gearbox torque, and four custom alarms - User-configurable response to external digital and analog (4...20 mA) I/O - User and equipment protection such as automated start warning time, start time, and start delay following power cycle - Detects and responds to loss of load cell and proximity sensor signals, automatically adjusts pump operation and transmits alarms to the local panel and to the host system
History	24-hour and 60-day trends - Calculates parameters such as fill status, gross and net production, and downtime - Tracks parameters related to drive and motor performance such as speed, torque, current, power, and voltage
Dynamometer Card	- Produces downhole, surface, and timed dynacard - Automatically retains up to 18 historic cards grouped by pump-off event or user-selected - Retains last dynacard saved by user - Automatically uploads dynacard to Host system
Communication	- Uses standard serial Modbus™ RTU (RS-232 & RS-485), Modbus/TCP (Ethernet) and DNP3 - Ready for connection to 3rd-party host systems using LUFKIN® Modbus Map (LOWIS, XSPOC, Keware) - Compatible with standard IP-enabled radios such as Trio™ Data Radios
I/O	- Configured by user remotely or locally using Modbus/TCP or optional HMI touch screen - Supports 4...20 mA load cell, available mV/V or strain gauge load cell adapter kit - Supports proximity, crank angle or motor speed sensors - Expandable I/O - can be employed to monitor additional processes using up to 515 physical I/O points.



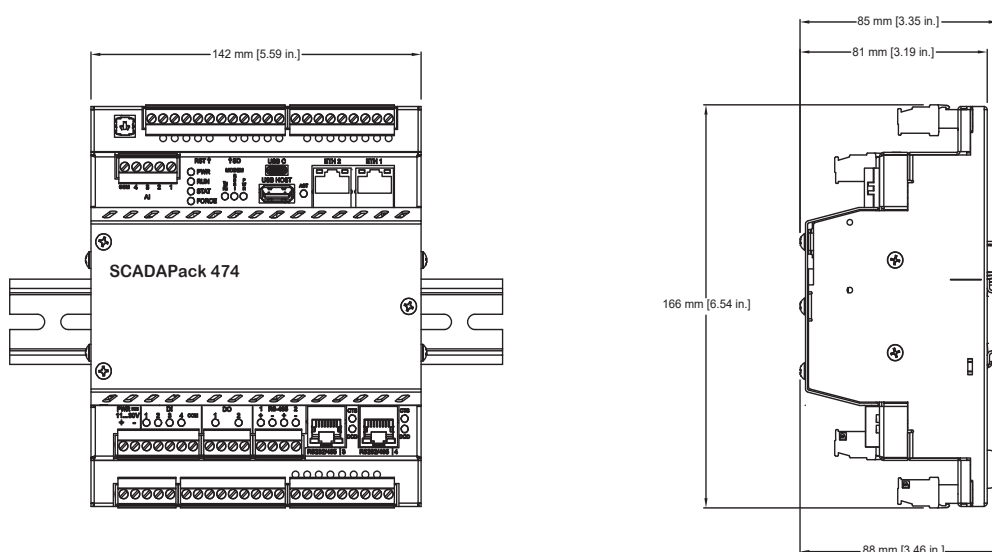
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Model Code – SCADAPack 474 Rod Pump Controller

Part Number	Description
TBUP474-UA50-BB00S	SCADAPack 474 RTU, Dry Contact Relay
TBUP474-UA50-BB0TS	SCADAPack 474 RTU, Dry Contact Relay, 12 Flow Runs
TBUM297147	SCADAPack Rod Pump Controller, Factory
TBUM297148	SCADAPack Rod Pump Controller, Field Upgrade

Rod Pump Controller



SCADAPack 474 RTU

Disclaimer:

The information provided in this document contains general descriptions and/or technical characteristics of the performance of the described products or services. For detailed specification, performance and instruction of use, refer to corresponding Catalogs and user guides if available.

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For information on the Drive Solution, please contact your local **Drive expert**
Locate your **Drive distributor**.

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Part number TBULM01032 v08

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Improved sales through... Differentiation

Green Premium delivers strong value propositions through third-party labels and services. By collaborating with third-party organizations we can support our customers in meeting their sustainability goals such as green building certifications.

*PEP: Product Environmental Profile (i.e. Environmental Product Declaration)