



## The Intelligent Way to Manage Wellhead Production and Assets

When it comes to cost-effective wellhead optimization, information and control are critical. This requires reliable control, real-time data, and convenient communications.

With the NEW AutoCycle™ ic you get all three... and more. Now, you can stay in touch with your wells 24/7/365 every minute of the day regardless of where you or your wells may be located.

The NEW AutoCycle™ ic is a seamless wellhead management solution unlike anything you've ever seen.

With this fully-integrated solution, you can easily monitor your production process with iNodes™ wireless liquid level, pressure and temperature sensors and control your plunger lifts from your office, vehicle or... from anywhere. Optimize production. Reduce costs. Improve safety.

The AutoCycle™ ic offers upgrade scalability, meaning you can begin with a standalone feature set and when ready, quickly and easily upgrade to any level of functionality and control you desire.\* The AutoCycle™ ic offers the familiar appearance, control panel ease-of-use, intuitive menu-driven program design, and collective functionality of our popular controllers, including: LiquiLift™ III, AutoCycle™ and ACC5000™.

*\*Upgrades can only be made to compatible AutoCycle™ ic boards.*



## AutoCycle™ ic

### Enhance Your Control

The first of its kind 2-way text messaging, connectivity with any SMS text enabled cell phone. Check current status, change operating parameters, receive scheduled messages, and notification of alarm events.

The NEW AutoCycle™ ic brings wellhead management all together in one simple solution! You no longer need a full SCADA set-up to get full-level communications with your wells. Now, you have total control, command and communications you need! The NEW AutoCycle™ ic is a seamless wellhead management solution unlike anything you've ever seen.

### Features

- Outside-the-Box Innovation in a single box
- Patented AutoCycle™ plunger lift controls inside
- Designed for low-power monitoring and control applications
- Integrated remote connectivity for access to real time wellhead conditions from anywhere at any time
- Scalable to meet your needs today, tomorrow and into the future



## Specifications

### General

<b>Memory</b>	<ul style="list-style-type: none"><li>• 512K application code size</li><li>• 512K random access memory</li><li>• 1 Micro-SD (2GB max) card slot memory expansion</li></ul>
<b>Pneumatic Output</b>	<ul style="list-style-type: none"><li>• One pneumatic magnetically latching solenoid valve included</li><li>• 40 psi maximum input pressure</li></ul>
<b>Operating Temperature Range</b>	<ul style="list-style-type: none"><li>• -40C to + 60C</li><li>• -20C to + 60C for LCD display</li></ul>

### Power Characteristics

<b>Power Supply</b>	<ul style="list-style-type: none"><li>• 6 Volt or 12 Volt DC selectable power source<ul style="list-style-type: none"><li>- 6V 1W solar panel with a 12V 4.5 A-h rechargeable gel cell battery rated for use in Class 1, Div 1</li><li>- 12V 10W solar panel with a 12V 12 A-h rechargeable gel cell battery rated for use in Class 1, Div 2</li><li>- Temperature compensated battery charging</li></ul></li></ul>
<b>Solar Charger Input</b>	<ul style="list-style-type: none"><li>• 12 Volt, 10 Watt max</li></ul>
<b>Quiescent Mode Current</b>	<ul style="list-style-type: none"><li>• Approximately 8 milliamps (during sleep cycle)</li></ul>
<b>Valve Open or Close Pulse</b>	<ul style="list-style-type: none"><li>• Typically 0.8 amps for ¼ second</li></ul>
<b>Keypad/LCD active</b>	<ul style="list-style-type: none"><li>• 3.5 milliamps until next sleep cycle</li></ul>

### I/O

- 3 Analog inputs 0-5 Volt
- 1 Discrete input typically for magnetic shut off plunger sensor
- 4x20 character LCD and Keypad
- 4 Discrete high current outputs for actuation of up to 2 Latch valves

### Communications

- 1 serial port RS-232 connection
- 1 TTL 3.3V serial connection
- USB Local Operator Interface (LOI)
- Optional cellular modem to enable remote monitoring and control with cell phone SMS messaging

### Mechanical

<b>Enclosure Description</b>	<ul style="list-style-type: none"><li>• Painted Steel, Lockable, Weatherproof</li><li>• Stainless Steel option available</li></ul>
<b>Enclosure Dimensions</b>	<ul style="list-style-type: none"><li>• 8.25" Wide X 8.25" High X 4" Deep with the 4.5 Ah battery</li><li>• 8.5" Wide X 12.25" High X 7" Deep with the 12 Ah battery</li></ul>

## Monitoring and Control Options

- Plunger-Lift Control
- Tank Level Monitoring
- Pressure Monitoring
- Temperature Monitoring

## Interface Options

- Local PC Access for Setup and Operations
- Cellular via SMS Text and Email
- On Site with Full Function Keypad & Display



Contact us today to learn how our technology can help improve your production performance. Visit our web site – or email us at: [staff@fbdoover.com](mailto:staff@fbdoover.com)