



# WELL-Pack™

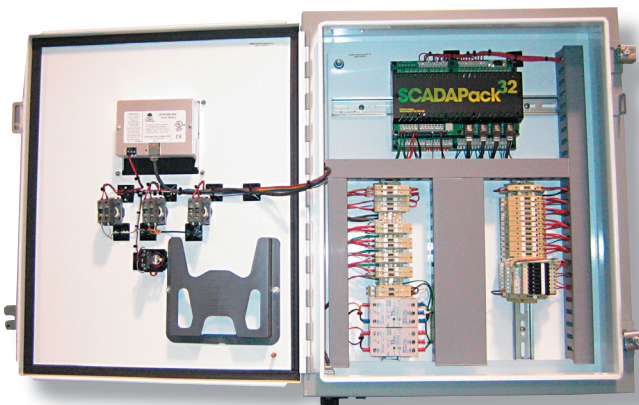
## Product Specification Sheet

*Local/remote H-O-A controller for gas and oil wellhead applications*

*Local/remote control for surface and submersible pumps*

*Custody transfer quality gas measurement*

*Local/remote alarm and setpoint configuration and display*



## Features

- Based on 32 Bit SCADAPack32™ PLC
- Designed for Wellhead Facilities Control and Alarming
- Valve Control for up to 3 Valves
- Water Measurement
- Requires Limited PLC Experience
- Native Modbus Communications
- SCADA Screens Available for Wonderware and CygNet

The Insight Technical Services, Inc. (itsi) **WELL-Pack** is designed for facilities where gas measurement alone is insufficient. The **WELL-Pack** is an integrated solution for custody transfer quality gas measurement and local/remote wellhead control. The foundation of the **WELL-Pack** is Control Microsystems's SCADAPack32 PLC that is powered by a 120MHz 32bit CPU and has 8Mb SDRAM, 4Mb Flash and 1Mb of CMOSRAM memory. When combined with CMI's RealFlo gas measurement software the SCADAPack32 has the ability to provide custody transfer quality gas measurement for up to 10 meter runs.

The **WELL-Pack** utilizes digital and analog PID control algorithms to provide local/remote position control for multiple valves. The **WELL-Pack** is designed to control surface and submersible pumps by user configurable On time and Off time timers or by the input from a 3rd party Pump-Off controller. The **WELL-Pack** design also provides for the monitoring of process and storage vessel levels and process values as well as flow line process values. High-speed counters in conjunction with the **WELL-Pack** programming enable water measurement by turbine meter with the capability to store and retrieve 35 days of historical data. Custody transfer quality gas measurement is achieved by the embedded RealFlo software utilizing

either local Modbus communication via RS-485/422 to a Modbus enabled MVT or separate DP, P and T transmitters wired to analog inputs.

The **WELL-Pack** uses a 24 key, 4x20 character VFD display as the local operator interface. The Main screen displays the current PLC date and time as well as the current pumping unit operating state. The **WELL-Pack** interface is designed to scroll/pause through current process values, discrete I/O statuses, alarms and shutdowns at a touch. Function keys and menus provide access to password protected configuration, control and alarming set points and parameters. The **WELL-Pack** includes front panel pushbuttons for Hand-Off-Auto local control of the facility pumping unit. The use of pushbuttons allows remote control to override local settings reducing lost time in return trips to the site. A facility shutdown pull-button is also located on the front panel.

The **WELL-Pack** is an ideal fit for the coalbed methane industry because it provides the ability to control all wellhead operations as well as custody transfer quality gas measurement. Our custom programming and packaging, derived from many years of experience in the oil and gas industry, makes this THE off-the-shelf solution for your wellhead automation needs.

## WELL-Pack™ SPECIFICATIONS

Wellhead Automation.....	Gas, Coalbed Methane, Oil, Water, H <sub>2</sub> S Environments
Alarms.....	Operator Configurable Alarm Setpoints
Shutdowns.....	Operator Configurable Shutdown Setpoints
Shutdown Capture.....	First-Out Shutdown Capture, 10 Shutdown History
Bypass Timers.....	Configurable Short Timer and Long Timer Bypass Timers
Flow Measurement.....	Custody Transfer Gas Measurement for up to 10 Meter Runs
PLC I/O Protection.....	All I/O is Fused & Isolated from SCADAPack PLC
Panel Wiring.....	Ready Wired for Field Installation; Field Connections Isolated from Internal Wiring
Setup.....	Limited PLC Experience
Documentation.....	Schematics and Wiring Instructions Included with Each Unit
SCADA Enabled.....	Pre-Configured SCADA Screens Available for Wonderware and CygNet
Expandable.....	WELL-Pack Can Be Expanded As Needed
Communications.....	Modbus Native, 3 RS232, 1 RS232/485 Configurable, 1 Ethernet Port
Enclosure.....	NEMA 12 Hoffman Enclosure
Area Rating.....	Class 1 Div 2 Hazardous
Environmental.....	-40 to 158 Degrees Fahrenheit Operational
Terminals.....	Weidmuller Terminals and Fuse Blocks Used Internally
Warranty.....	3-Year on SCADAPack32 PLC



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