Be productive. ABB Automation intelligence. Wellhead to worldwide distribution.
ABB products and software combined
The complete solution for oil and gas

In years past Totalflow successfully revolutionized the world of gas measurement and its traditional paper chart recorders with our remote electronic flow computers. More recently we changed the way we look at BTU analyzers with our ingenious gas chromatography solutions. Now we’re ready to do it again. Only this time we’re incorporating the products and solutions of ABB as a whole, the world’s largest automation company.

ROI achieved in 20.5 days using ABB PlungerLift Application!

Total upgrade cost $3125.00

Production information
Before upgrade 143.5 barrels $480.73
After upgrade 189 barrels $633.15
Total increase 45.5 barrels $152.43

Upgrade + increase = ROI $3125 + $152.43 = 20.5 days!

Note: Upgrade cost includes pressure transmitters, G4 upgrade kit, keypad, solenoid and wire. The above calculation is based on a value of $3.35 mcf (wellhead gas price). The scenario is based on an actual evaluation, but is not guaranteed.

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Sample of Pre-Programmed Applications

| AGA3 | Well Test Application |
| AGA7 | Pad Controller |
| Liquid Measurement | Shutdown App |
| Coriolis Tube | PID Controller |
| Oil Transfer | Valve Control |
| Tank Interface | Trend System |
| Plunger Lift | RAMS (Alarm) System |
| Gas Lift | Operations (Custom Programming Tool) |
| Chemical Injection | IEC 611-31 |

Fracking fluid — Flow meters — Level — Liquid analyzers — Pressure — Valve control

Gas/liquid separator — Flow meters — Gas chromatographs — Level — Pressure — Temperature — Valve control

Remote gas wellhead — Flow meters — Gas lift — Pressure — Valve control

Pad site control — Drives — Motors — RTU/controller — Valve control — Wireless mesh networks

Oil & pumpjack — Flow meters — Gas chromatographs — Level — Pressure — Temperature — Valve control

LACT control — Flow meters — Level — Pressure — Temperature — Valve control — RTU/controller

Transmission — Gas chromatographs — Pressure — RTU/controller — Temperature — Valve control — Wireless mesh networks

To liquid storage facility — Flow computers — Flow meters — Gas chromatographs — Pressure — Temperature — Valve control

To gas storage facility — Flow computers — Flow meters — Gas chromatographs — Pressure — Temperature — Valve control

To industrial/city gates — Flow computers — Flow meters — Gas chromatographs — Pressure — Temperature — Valve control

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Optimized performance
Increased profitability with ABB devices

"Using Totalflow’s production solutions, we reduced our field decline curve by 7%.”
Production Foreman, East Texas

Well pad monitoring and control
ABB’s wellhead monitoring solutions allow for maximized production while ensuring the safe and proper operation of the pad. This is accomplished through the gathering and processing of quality input data from various ABB Primary Meters, Tank Level Systems and Instrumentation over wireless or hard-wired paths. The processing and control of this data is handled through our pre-programmed or user-designed applications contained in ABB’s industry leading RTUs. The results are logged, trended and transmitted through both traditional and IP meshed networks back to either an ABB host system or a third party host/SCADA system. The conclusion is a smart well pad improving safety and providing the customer with real-time information that is both predictive and diagnostic.

Oil, gas and water measurement
With ever increasing environmental and shareholder pressures being placed on producers there has never been a greater need for timely and accurate measurement data. ABB continues to offer unrivalled reliability in measurement of oil, gas and water utilizing a complete line of primary meters, transmitters and flow computers. From traditional orifice metering through wedge, magmeter, swirl and our industry leading coriolis meter in association with ABB’s field transmitters, measurement has never been as accurate or easy.

Gas quality
ABB’s line of custody transfer GCs and process analyzers offer a low cost and high accuracy solution to measuring composition, heating value and process efficiency. Our low powered, robust NGC and PGC offer unrivalled flexibility and performance. This enables our customers to increase the overall measurement accuracy of their system while at the same time not increasing the technical burden on operators. Within the plant gate, ABB’s process analyzers are proving increasingly valuable for plant process control and optimization. In addition, units like our RVP analyzer are providing valuable analysis of today’s condensate rich production streams. From wellhead to burner tip, ABB’s analytical products will enhance the efficiency and accuracy of your business.

Gas control
With the increasing complexity of gas gathering, transmission, and distribution systems, control of high and low flow runs is critical. The consolidation of smaller stations into mega facilities requires I/O monitoring and control, safety overrides, valve control and positioning and tube switching to meet the ever changing demands of industry. ABB provides customers industry leading solutions that meet or exceed the stringent regulations, cost restraints and safety concerns of our customers with standard applications that are flexible, efficient, and reliable.

The low cost, compact design of the ABB gas chromatograph has allowed us to increase accuracy while decreasing cost.”
Measurement Coordinator, Central Texas

A comprehensive portfolio
Efficient and enhanced production
ABB Inc.
Totalflow products
Quotes: totalflow.projects@us.abb.com
Orders: totalflow.order@us.abb.com
Training: totalflow.training@us.abb.com
Support: totalflowsupport@us.abb.com
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