

MEASUREMENT & ANALYTICS | UPSTREAM OIL & GAS

Be productive

Automation intelligence from wellhead to distribution



Measurement made easy



"Using Totalflow optimizing solutions, we improved our field decline curve by 7%." **Production Foreman** East Texas

"The low cost, compact design of the ABB gas chromatograph has allowed us to increase accuracy while decreasing cost."

Measurement
Coordinator
Central 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 pressure being placed on producers there has never been a greater need for timely and accurate measurement data. ABB continues to offer unrivaled excellence 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

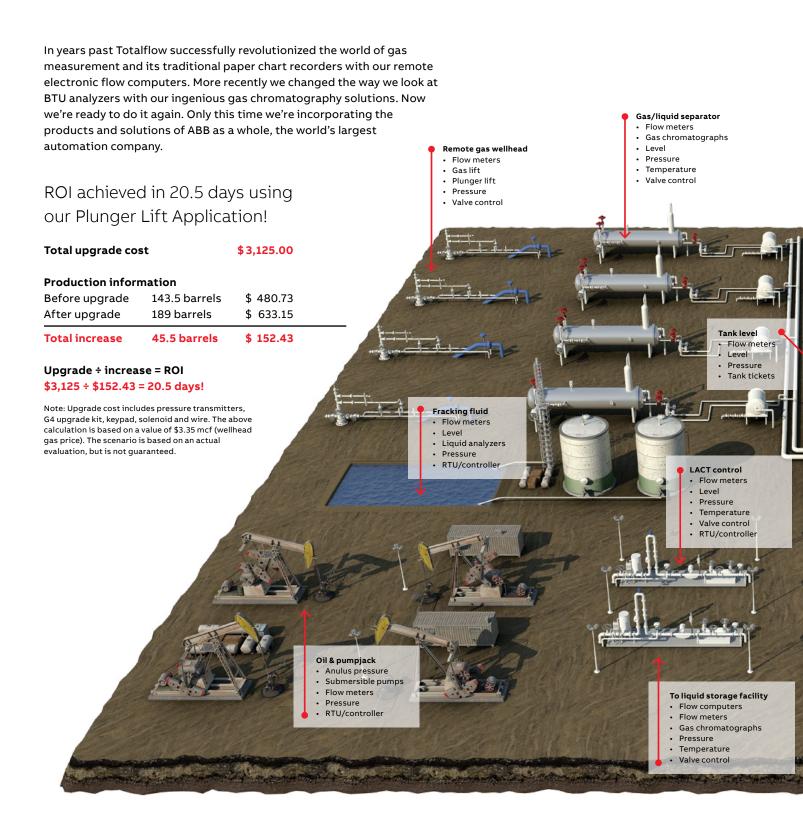
ABB's line of custody transfer GCs and process analyzers offer a low cost and high accuracy solution to measuring composition, heating value and process efficiency. Our low powered, robust NGC and PGC offer unrivaled flexibility and performance. This enables our customers to increase the overall measurement 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.

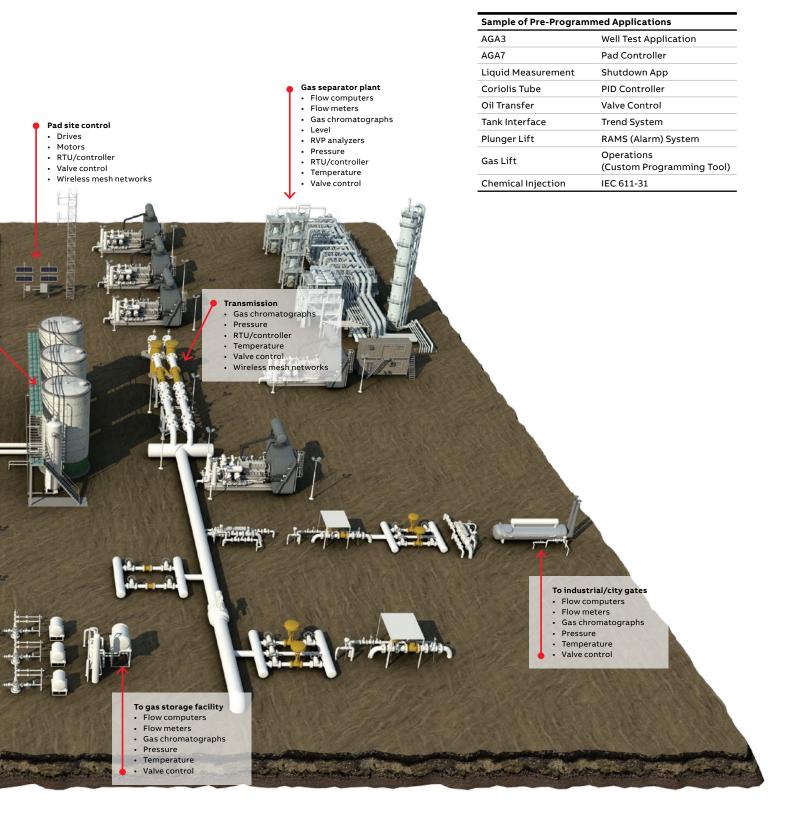
Gas control

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.

Optimized performance

Increased profitability with our devices





A comprehensive portfolio

Efficient and enhanced production



Computer interface	Production automation	Instrumentation	Measurement	Control
Software solutions	Applications	Pressure transmitters	Flow computers	Valve control
• PCCU	Chemical management	Gauge pressure (high)	Basic FCUs	Digital positioners
• WinCCU	Plunger lift	Gauge pressure (low)	Extendable FCUs	I/P converters
Totalflow Web Interface	Gas lift	Temp. transmitters	Explosion-proof FCUs	Remote controllers
PAS (Plunger Analysis)	Valve control (AO / DO)	Field-mounted	Liquid FCUs	Extendable controllers
SCADAvantage	• PID loop	Head-mounted	Analyzers	Custom-built solutions
• TF.net	IsaGraf custom logic	Level transmitters	• NGCs	
• eXLerate	LACT control	Ultrasonic transmitters	• PGCs	
Tropos control	Pump control	Guided wave radars	RVP analyzers	
Network wireless	Emergency shutdown	Liquid level sensors	Remote controllers	
Mesh networks	Tube switching	Vibrating fork switches	Extendable RTUs	
Wireless bridges	Station totalization	Flowmeters	Custom-built solutions	
WellTell wireless	Remote controllers	Coriolis meters		
	Extendable RTUs	Mag meters		
	Custom-built solutions	Vortex / Swirl meters		
		Thermal mass meters		
		DP Flowmeters		
		Compact wedge meters		



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Upstream Oil & Gas

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