



PROCESS INSTRUMENTATION

Increasing shale oil & gas
production **without sacrificing**
your profits

usa.siemens.com/shale

SIEMENS

Our broad instrumentation portfolio delivers **value** to your upstream and midstream applications.

How do you measure success? If you need to increase productivity while minimizing capital and operational costs, Siemens provides solutions to support success in all your upstream and midstream applications.

For many in the oil & gas industry, "If it's not broken, don't fix it" is a guiding statement. You can't argue with an existing system that's bringing you results – or can you? What if you could get better results while also lowering your expenses?

Siemens offers a full portfolio of field-proven instrumentation featuring high measurement accuracy, quick and easy installation, and low maintenance requirements – helping you increase uptime and profitability. Working with Siemens as your single instrumentation partner to meet every upstream and midstream need, you'll save money, time and a whole lot of headaches.

Level: know what's in your storage tanks

The most important requirement for level applications such as tank batteries, separators, and dehydration units is knowing the correct level or interface within the tanks to avoid tank overfill fines, cleanup costs, and safety issues.

Siemens offers you flexibility with a number of level solutions. Radar instrumentation can be mounted on top for higher accuracy, or you can choose differential pressure transmitters installed at the bottom, preventing operators from exposure to dangerous fumes.

Siemens guided wave radar offers interface measurements. Our non-contact radar has 3mm accuracy and minimal maintenance, since it's never in contact with the material. Both guided wave radar and non-contact radar are SIL 2 suitable, offering operators additional safety.

Pressure: maximize uptime

Downtime is the enemy of the shale oil & gas producer. Pressure transmitters are widely used on wellheads to monitor casing, tubing, and flow pressures, as well as on separators, dehydrators, heater treaters, and various other applications, making them vital in the processing of shale oil & gas. As a result, it's critical to ensure that your pressure transmitters start up quickly and stay online.

Siemens supports this need with multiple configuration capabilities, such as push button setup in combination with a standard graphics-enabled local display, along with the ability to use a laptop and access data through multiple protocols.

Valve control: process quality

Siemens smart positioners provide thorough, accurate, and repeatable valve control with almost zero bleed, keeping your process moving and saving you lost air or natural gas costs.

Siemens valve positioners can deliver diagnostic data on themselves, the environment, the valves, and the actuator, providing superior functional safety in emergency situations.

Flow: every drop counts

Accurate and reliable flow measurement of product from upstream through midstream to downstream is the key to optimal system performance.

The Siemens flow portfolio includes Coriolis, magnetic, vortex, and ultrasonic clamp-on flow meters as well as differential pressure transmitters, offering you the highest-quality flow measurement with no moving parts, which means less maintenance.

Ultrasonic clamp-on flow meters offer precise interface detection for multi-product identification in addition to accurate flow rate. When used in conjunction with your leak detection system, clamp-on flow meters can detect and locate leaks within hydrocarbon storage sites, tank farms, and pipelines, lessening lost product and keeping you within EPA and PHMSA standards.

Service and support: your partner for success

Siemens backs up every instrument with top-of-the-line service and support, including:

- 24/7/365 technical support at no extra charge
- Field service personnel with years of experience.
- A Quick Ship program for fast replacement of instruments

In addition, we offer trusted local representation. Call our partners to find out how we can help.

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