

The Measurement Instrumentation That Ensures Your Gas Production Profitability



Ensure value for gas production

Foxboro instrumentation offers superior technology and a perfect mix of product capabilities for gas production operations. All at a significant cost savings.

Our instruments are designed to

- Be completely compatible with your existing setups
- Eliminate troublesome replacement/retraining issues
- Offer multiple features for maximum ease of use

So your natural gas operation can easily take advantage of our quality and cost efficiency, starting today.

- Unmatched asset lifetimes
- Best-in-class performance
- Outstanding ease of use
- Industry-leading warranties
- Lowest cost of ownership
- Versatile configuration tools
- Windows-based FDT technology
- Lightning-proof durability



Foxboro instruments are an important choice for gas producers. Foxboro clearly provides superior pressure, multivariable, vortex flow, and other measurement and field device instruments. Specify Foxboro offerings for gas production and processing, from wellhead to pipeline to distribution.

The smart choice

Our products increasingly are the instruments of choice for gas field managers, supervisors, engineers, and technicians responsible for critical measurement and instrumentation, automation, SCADA, facility design, or asset management.

Superior value

Get an unprecedented combination of price and performance. Our products are cost-competitive while offering superior specifications, performance, and ease of installation and use. Your profitability improves through more accurate accounting and lower cost of instrument ownership.

Foxboro fits gas production

Our instruments feature integrated intelligence for remote locations. They provide undoubted accuracy, along with transient protection to guard against lightning strikes.

Foxboro sets new standards for ease of use

Only Foxboro standardizes on advantages such as keypad entry and LCDs. Leave your handheld at the shop or in the truck and get built-in, no-tools configuration and calibration.

Foxboro makes it easy to switch

We offer traditional bi-planar plus Coplanar™ mounting, so you can effortlessly migrate from competitors' instruments.

Foxboro frontline gas production instruments meet the highest standards

- Integral LCD configuration
- Transient lightning protection
- Standard 24-hour delivery
- Warranties up to 5 years
- Extended 17-year warranty available



IGP10 pressure transmitter

Peak pressure performance

Advantages

- Superior to transducer
- Peerless price/performance
- Unmatched reliability
- Industry-leading 5-year warranty
- Standard transient protection
- Easy LCD/pushbutton configuration and use
- Unequaled availability and rapid delivery
- Low power consumption
- High accuracy and wide rangeability

The trouble with transducers

Transducer-based instruments, though common, are surprisingly ill-suited to gas field use. They lack integrated intelligence; typically require separate handheld configurators; can't compensate for ambient temperature fluctuations; and seldom feature robust transient protection. They may require replacement several times per year. Results: inadequate performance and deceptively expensive cost of ownership. Fortunately, Foxboro pressure transmitters provide a superior alternative at a better value.

Top-rank technology

The Foxboro IGP10 pressure transmitter offers the perfect gauge pressure solution for gas production and midstream operations. It offers accuracy of $\pm 0.060\%$ of span at turndowns up to 10:1, plus top-notch durability — both clearly superior to traditional transducer-based instruments. Choose analog outputs of 4-20 mA or 1-5 V dc (low power), or digital communications using HART, FoxCom, FOUNDATION fieldbus, or PROFIBUS.

Suitability for gas field use

Apply the Foxboro IGP10 pressure transmitter for accurate measurement throughout gas production midstream operations:

- Wellhead, casing, and line
- Separators
- Pipelines
- Compressors and more

Its low-power capability and standard built-in transient protection are preferred for remote locations. It guards against lightning strikes. Finally, 24-hour shipment means it's ready when you are.

Real value

Users get impressively low cost of ownership. Where transducer-based instruments require regular replacement, our pressure transmitter lasts years in challenging gas field service. That's why we back it up with a 5-year warranty — the longest in the industry.

Exclusive ease of use

The built-in LCD/pushbutton display allows easy reading in the field. It also greatly simplifies configuration. Foxboro lets you leave your handheld configurator at the shop or in the truck.



IMV25 multivariable transmitter

Versatile multivariable measurement

Advantages

- 3-in-1 transmitter
- Ideal for platform or wellhead application
- Absolute and differential pressure, plus temperature measurement (from external RTD) provided by user or Foxboro
- Available with Modbus protocol for easy communication with RTU
- Fewer transmitters, less wiring, fewer process penetrations
- Low-profile (Coplanar) and traditional mounting available
- Unsurpassed warranty, accuracy, and delivery

Engineering and applications

The Foxboro IMV25 multivariable transmitter is an accurate solution for efficient, economical, temperature- and pressure-compensated measurement of gas flow rates. This instrument is ideal for use at natural gas wellheads and pipelines. A proven, tested design enables users to replace separate static pressure, differential pressure, and temperature transmitters with a single unit that communicates all three measurements. The IMV25's core sensor technology is widely used in EFM applications. Finally, its availability with Modbus provides easy communications with RTU and flow computing platforms.

Efficiency and economy

The IMV25 doesn't require a proprietary cable for temperature measurements. It uses standard, off-the-shelf RTDs. Plus this superior product is very cost-competitive.

Calibration and use

Digital communications allow remote configuration, calibration, and monitoring.

Connection and mounting

The IMV25 offers a choice of traditional "right-angle" or popular low-profile Coplanar mounting for flexible installation to the user's desired configuration.

Warranty and delivery

Foxboro leads the industry with a standard 5-year warranty for this instrument. An extended 17-year warranty is also available. Our delivery outpaces that of any other instrument supplier — at no price premium.



83 Series intelligent vortex flowmeter

Advanced vortex results

Advantages

- Turbine meter replacement
- Accurate measurement of liquid/gas/steam
- Ideal for measurement of produced water
- Resistant to solids, grit and coal fines, etc.
- No moving parts, nothing to wear out
- Low-power device
- Lifetime sensor warranty
- Superior ownership cost
- Reduced upstream/downstream configuration

The trouble with turbine meters

Turbine meters are widely used for flow rate measurement in gas production — and have widely recognized problems. Their moving parts just don't mix well with grit or sand. Meter internals soon show wear and slip, which reduces measurement accuracy. Frequent maintenance and upgrading are required, soon followed by inevitable replacement. Few last more than a year in gas service. However, Foxboro vortex meters offer an attractive, extremely affordable solution.

Smart, durable design

Foxboro flanged- and wafer-body intelligent vortex flowmeters are the most rugged solutions available for gas flow measurement. They dependably outperform and outlast traditional turbine meters. With no moving parts to wear out and degrade accuracy, these instruments are designed with intelligence and maximum durability. They measure liquid, gas, or steam, with accuracy to $\pm 0.5\%$ for liquids and $\pm 1.0\%$ for gas and steam.

Application advantages

With this proven durability and long-lasting accuracy, Foxboro vortex meters have the advantage over turbine meters in the gas field. They excel at measuring produced water at the wellhead with the precision demanded by environmental regulations.

Great value

Our vortex meter is priced competitively with turbine meters. And with its lower maintenance and much longer lifespan — symbolized by our lifetime sensor warranty — there's no comparison in long-term cost of ownership.



Other fine Foxboro solutions

Level

Apply Foxboro level transmitters to hydrostatic level measurement of tanks near well sites. Utilizing no moving parts, these loop-powered instruments are accurate, rugged, and extremely reliable, requiring virtually no maintenance and providing LCD/pushbutton displays for easy calibration.

Differential pressure

When you must measure differential pressure at your gas production site, select the Foxboro IDP10 flow transmitter. It provides many of the advantages of our popular IGP10 model, including low power consumption; low-profile and traditional mounting options; a combination of low price with powerful performance; and a choice of 4-20 mA, 1-5 V dc, HART, FOUNDATION fieldbus, PROFIBUS, or FoxCom communications. It's ideal even for the highest-pressure applications such as offshore wells. Unlike competitive instruments, with pressure ratings that reach only 10,000 pounds, the IDP10 is rated up to 30,000 pounds.



Coriolis mass flow

Our industry-leading CT50 Coriolis mass flow transmitter serves a variety of critical gas field applications. Its revolutionary patented, award-winning design provides highly precise mass, density, volume, and temperature measurement. No other meter can offer its proven liquid/gas flow results without interruption. And it starts up to 10 times faster than conventional Coriolis flowmeters.

Positioner

For ultramodern capabilities matched with traditional functionality and reliability, turn to our high-performance Foxboro Eckardt intelligent positioners. They operate your pneumatic valve actuators with precision, featuring the latest 100% solid-state sensing and control circuitry, plus upgradable electronics. Purged housings, continuously rinsed with fresh process air, help protect against environmental gases, humidity, and airborne particles in your gas field.

Superior Foxboro service



Even great products need service to back them up. Ask what services can enhance your Foxboro experience. Naturally, most are available worldwide.

Unequaled support

Specialists are on call 24 hours a day, 7 days a week to answer your questions or offer the help you need. In the U.S., call our technical support toll-free at **1-888-FOXBORO**. Elsewhere, call our local office, or call the U.S. at **1-508-549-2424**.

On the Web, visit:

- www.foxboro.com/instrumentation to obtain more information, electronic documentation, and in-depth spec sheets and drawings
- www.flowexpertpro.com for flow selection and sizing software
- www.buyautomation.com to check your order status and project or agreement pricing, in real time

Ask about our education services, both CD-based and available in training classrooms worldwide.

Unmatched delivery

Many Foxboro products are offered with standard next-day shipping — at no added cost!

The Foxboro Difference

New instrumentation ideas — applied at the point where the control system meets your process — can make all the difference. They allow you to greatly improve your operation's economic, safety, and environmental performance.

Others may imitate our successful designs of the past. Today, Foxboro instrumentation furnishes further innovations instead. We offer a broad range of pressure transmitters, flowmeters, pH meters, and other measurement product lines ideal for your applications.



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