

MEASUREMENT IQ FOR GAS

Measurement Under Control



So What if You Could...

- View and share data before you get to the equipment?
- Get real-time alerts when parameters exceed limits?
- Track historical data to see when and why issues occurred?
- Maintain Certified Performance against the last wet calibration?

Measurement IQ for Gas is your answer.

• Predictive Maintenance

• 24/7 condition-based monitoring

• Edge to Cloud connectivity

• Best-in-class industrial cyber security

• Total Care Services Package

See Everything Without Being Everywhere.

Elevate your Measurement insight with real-time, actionable data. Now you and your team can proactively troubleshoot the problems that lead to mis-measurement, unplanned downtime and lost profits. Diagnose issues quickly from anywhere and arrive at the metering station with the right tools and knowledge for a faster fix—keeping your measurements at the highest accuracy.

Measurement IQ for Gas: Measurement Under Control

All your meters, all the time—right across the world. Measurement IQ for Gas software connects you to your metering stations. It lets you reduce gas that's lost, drive down costs and increase profits with a more effective, connected metering operation.

The Cost of Inaccuracy

Small errors are a big problem in gas metering. Errors are rarely random; they accumulate. Undetected, they quickly erode profits.

An error of 0.5% in ultrasonic gas measurement can add up to \$1 million in losses over a year. Unaddressed, faults disrupt operations and lead to unplanned downtime.

With a broader hydrocarbon mix, an increasing number of pipelines, and the prospect of contaminated gas, effective ultrasonic meter care is critical to success. Operators need effective, efficient regimes to maintain meter health while controlling costs—right across their business.

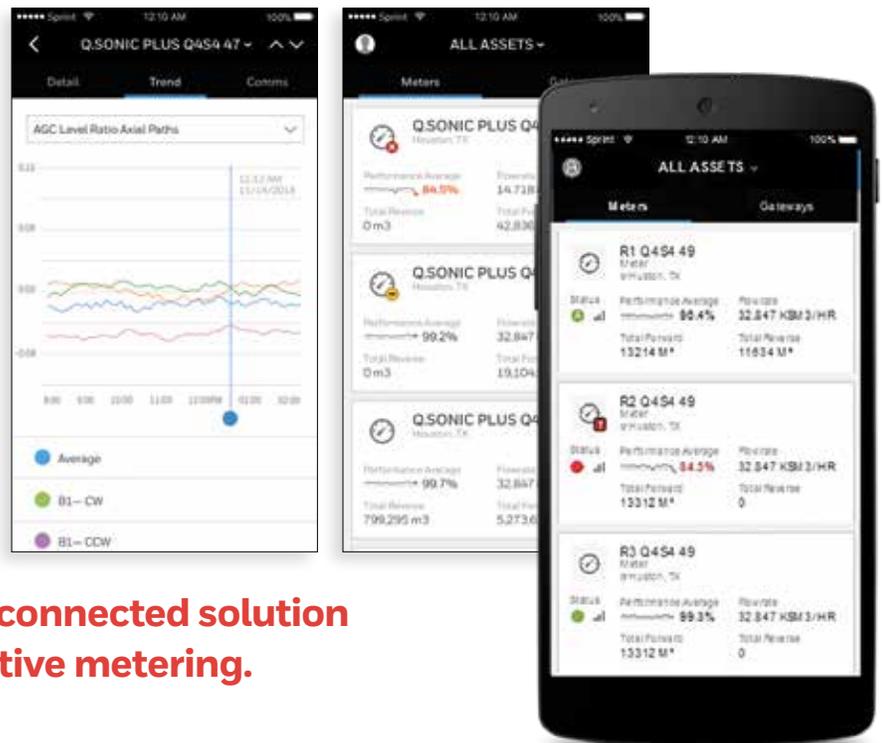


Better Data. Better Insights. Better Performance.

With enhanced visibility of your high-pressure equipment across the enterprise, you can implement effective preventative maintenance strategies, minimize calibration requirements and reduce operating expenses.

Leveraging the Power of Connected, Measurement IQ provides real-time, round-the-clock visibility of your metering assets and puts you in control:

- To detect faults and errors faster and cut the costs of lost and unaccounted for gas
- Anticipate problems before they occur and avoid downtime
- Keep measurement uncertainty to a minimum
- Eliminate unnecessary maintenance and extend periods between calibrations, without compromising compliance or confidence in meter readings.



Measurement IQ for Gas is the connected solution that lets you deliver more effective metering.

Transform Your Enterprise

Capture, consolidate and share data across the enterprise and around the world with Measurement IQ for Gas. It lets you securely connect and collect data from gas metering systems across all your sites and draws it into a single, integrated view to focus resources on meters at risk of measurement errors.

- With best-in-class industrial cyber security you can rapidly and securely access all your gas metering stations, wherever they are, with simple connection to an edge device
- Gain unlimited scalability and unrestricted computing power, with Cloud analytics and data processing
- Connect to your data securely and work with it anywhere via a web browser
- Collaborate across the enterprise, and leverage expertise from across the world
- Relieve costs and boost security with automatic updates and secure software hosting
- Get data and alerts where and when they're needed using the Honeywell Experion mobile app.

Accelerating diagnosis of problems and massively reducing the need for service engineer site visits, Measurement IQ for Gas helps get data to the people who need it and gives them the insights they need to realize its value. It lets you draw on expertise inside and outside the business and gives you improved visibility for better decisions.



Making a difference with Measurement IQ for Gas

- Real-time, 24/7 enterprise-wide condition-based monitoring
- Cloud connectivity for easy data sharing, remote monitoring and efficiency
- Condition-based monitoring for maintenance as required
- Meter audit trails for third parties and metrology approvals
- Total Care outsourced maintenance option.



Seeing is Believing: 24/7 Condition-based Monitoring

Measurement IQ's diagnostic dashboard gives an at-a-glance overview of gas metering stations across your operations. Intelligent warnings and alarms powered by advanced diagnostics let you rapidly identify problems and drill down to identify root causes and troubleshoot.

Combining an intuitive interface with in-depth analysis, the software enables users to anticipate problems and make informed decisions about maintenance and recalibration. It will automatically detect any significant change in not just the flow meter, but also in the process and environment in which it operates—promoting a safer, more efficient and more reliable operation.



Portable Power: Metering Data on the Move with the App

With the Honeywell Experion® App, Measurement IQ for Gas users can get customized real-time plant notifications direct to their smart phone. They can then use Measurement IQ for Gas from any internet-enabled PC, tablet or phone to access the diagnostic dashboard and drill down to find the problem meters, secondary measurements or process conditions.

With tailored alerts for operations, maintenance or leadership teams, we bring people together with the data they need to make a difference.



Total Peace of Mind with Total Care

With Measurement IQ for Gas connected solution, you can choose to have Honeywell manage your metering maintenance. Our Total Care package gives cost certainty and consistent reliability through continuous remote monitoring and guaranteed service levels for your metering stations.

Total Care enables you to take strategic control of your metering and lets you leverage decades of experience and Honeywell's expertise around the globe.

The Benefits of Measurement IQ for Gas

Reduce Lost and Unaccounted for Gas and Cut Operating Expenses

Detect and Diagnose Meter or Process Issues Quicker

Increase Measurement Certainty

Prevent Downtime

Extend Calibration Periods

Reduce Engineer Site Visits

Condition-based Maintenance for Safer, More Efficient Operations.

With condition-based monitoring you can save on maintenance, optimize the health of your assets, increase safety and prevent incidents.



Under traditional time-based maintenance

regimes, meters are calibrated at specified intervals. These can be extended if there is evidence of stable measurements, under a risk-based maintenance approach. In both cases, though, calibration occurs even when it's not needed.

With Measurement IQ for Gas you can move to true condition-based monitoring. Powerful in-built analysis draws on diagnostic information to detect changes in flow meters, the process or operating environment. Where indicators show performance deteriorating or evidence of forthcoming equipment failure, it prompts users to send a service engineer: Maintenance only when it's meaningful.

With Measurement IQ for Gas, users can significantly reduce their maintenance and calibration costs and enhance their operations:

- Using historic diagnostic information as a basis to extend calibration intervals specified by regulatory authorities
- Reducing engineering site visits, with no need for regular inspections
- Increasing safety by reducing field visits for troubleshooting
- Boosting measurement confidence with continuous validation of metering systems
- Automatically analyzing measurement and control functions as well as measured data to solve technical and operational issues
- Capturing all calibration data to compare between individual calibrations and calibration facilities to monitor every meter throughout its lifespan.

Measuring the Bottom Line: Potential Annual Savings

1. Extending recalibration intervals from one to two years: \$50,000
2. Reduced measurement uncertainty of 0.08%: \$112,320
3. Gas lost and unaccounted for through a 0.5% mis-measurement: \$1,000,000

A Broader Portfolio. A One-Stop Shop for Measurement and Metering.

Honeywell offers industry-leading solutions for the entire metering system, including flow computers, gas chromatographs, pressure and temperature transmitters, and the world's best ultrasonic meters.

Field proven in demanding fiscal applications since 1985, we have one of the most extensive installed revenue measurement bases in the world: more than 200 million metering devices deployed in over 130 countries.

Delivering advanced features and reliable performance, our equipment, services and solutions help build the metering operations our clients need: minimizing uncertainty, maximizing reliability and boosting efficiency to help meet the challenges of a changing market.

Keeping You Supported

Wherever you are, whatever you do, we're here to help. We have over 160 service engineers and 30 service centers across the world.

With Total Care Field Instrumentation Services, we help keep your equipment and software safe, reliable and efficient to deliver the best return on your investment. Our services include site surveys; configuration, programming and calibration support; product and system integration; and commissioning.

From first to last, we'll help ensure your solution delivers the value you need to keep the operation running smoothly and profitably.

For more information

To learn more about Honeywell Connected Plant Measurement IQ for Gas, visit www.honeywellprocess.com or contact your Honeywell account manager.

Honeywell Process Solutions

1250 West Sam Houston Parkway South
Houston, TX 77042

Honeywell House, Skimped Hill Lane
Bracknell, Berkshire, England RG12 1EB UK

Building #1, 555 Huanke Road
Zhangjiang Hi-Tech Industrial Park
Pudong New Area, Shanghai 201203

Germany Elster GmbH Steinern Straße
19-21 55252 Mainz-Kastel

www.elster-instromet.com
www.honeywellprocess.com

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