

Honeywell | Connected Industrial

ELSTER® TwinSonic^{plus}

Reliable Two-in-one Ultrasonic Gas Meter
for Custody Transfer Measurement Applications



Time for a Second Opinion

Two independent measurements, a single device: Honeywell Elster TwinSonic^{plus} ultrasonic gas meter delivers accuracy and insight to boost the reliability, performance and efficiency of your custody transfer applications.

A Market Made for Metering

Volatile prices, tight margins and increasing complexity in the natural gas value chain are putting pressure on the midstream. The need to control costs, boost uptime and reduce risk has rarely been greater.

The custody transfer operation is central to this effort. With a wider hydrocarbon mix and increased number of pipelines carrying dirty gas, midstream players need increased insight into the process. Undetected errors in measurement resulting in lost or unaccounted for product will quickly erode profits. So, too, will unplanned downtime.

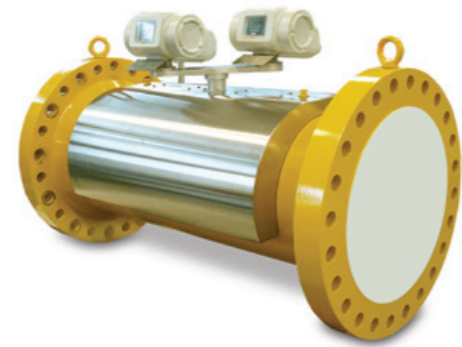
High accuracy and reliability of the metering solution has become a key differentiator for midstream operators. They need consistent measurements they can have confidence in and a reliable, robust metering solutions.

Two Become One

In a single body the TwinSonic^{plus} combines highly accurate fiscal metering with a second, entirely independent measurement for verification.

Market leading ultrasonic metering technology, advanced diagnostics and easy-to-use software deliver the highest levels of accuracy, confidence, cost-effectiveness and long-term reliability:

- Automatic verification and redundancy for the primary measurement without installing two separate meters
- Faster detection of liquid and dirt build-up with a unique patented multi-path design
- Internal pressure and temperature sensors for accurate flow measurement, even when process conditions vary
- Always-on, easy and safe transducer replacement, with no interruption of the metering process
- SonicExplorer[®] software and Ethernet connectivity for comprehensive, proactive healthcare monitoring from the control room.
- Even more than the sum of its parts, the Honeywell Elster TwinSonic^{plus} delivers unmatched process visibility, accuracy and reliability for your custody transfer applications.



Lower Your CAPEX

Two meters in a single body means a smaller, more flexible and cheaper solution for applications requiring a second measurement for ongoing monitoring and verification.

The TwinSonic^{plus} removes the cost and complexity of separate meters. It offers a smaller footprint and eliminates the need for intermediate piping. Skids are smaller; installation is easier; and equipment and piping costs are lower.

For a 12" ultrasonic meter (USM) we estimate our combined solution will save a typical user about 45% in capital expenses for each meter run, when compared to buying and installing two meters in series.

Cut Your OPEX

The TwinSonic^{plus} removes costs with high reliability transducers, a redundant design, LAN connection and software for centralized monitoring and control. Enjoy savings of 75% per year for each meter as a result of fewer failures, unplanned shutdowns and field service trips.

High-grade titanium transducers offer enhanced corrosion resistance, but where required, cleaning or replacement can be done without shutting down or depressurizing the system. Control room monitoring and diagnostics, meanwhile, improve safety and efficiency.

With no moving parts, powerful diagnostics and durable materials, the TwinSonic^{plus} is designed to deliver continuous metrological-compliant measurements from the moment of start-up to its scheduled shutdown, with no interruptions in between.



Eliminate Uncertainty: Q.Sonic^{plus} Metering

The TwinSonic^{plus} uses the market-leading technology of the field-proven Q.Sonic^{plus} USM for its primary measurement. A patented six-path configuration provides detailed flow profile recognition, superb noise immunity, and unrivaled pressure and gas velocity abilities.

Using reflective paths and sophisticated diagnostics, our meter quickly identifies fouling or liquids inside the pipe. Fiscal measurements are fully compliant with AGA9, type approved (MID) by NMI, and explosion approved according to ATEX, IECEx, FM and CSA. With four double reflection paths (swirl paths) and two single reflection paths (axial paths), the primary measurement will provide compliant fiscal measurements even in case of a failure of one path of each type (axial/swirl).

Two axial (single reflective) paths for verification support the primary measurement, gives greater confidence in the final measurement.

Using the TwinSonic^{plus} we estimate users can reduce uncertainty by 0.05% compared to competitor USMs: as much as 17% annual savings, assuming a daily throughput of 100 MMSCFD at \$3.90 MCF.

As an ultrasonic meter, the TwinSonic^{plus} causes no pressure drop, offers a wide turn down ratio of 100:1, supports bi-directional flow, uses no moving parts and offers a low cost of ownership.

Faster, More Efficient Diagnosis

With the meter's Ethernet connection and the SonicExplorer PC-based software, users can configure, diagnose and monitor the TwinSonic^{plus} remotely.

Users can view and analyze real time and historical meter health and performance data, and use the software for off-line data analysis and flow meter pre-commissioning configuration. Advanced features include automatic notification of warnings and alarms: SonicExplorer can immediately collect all diagnostic, configuration and spectral noise analysis data and email the log to preselected recipients for local or third-party support.

Intuitive and easy to use, SonicExplorer software enables detailed data analysis for better decisions regarding maintenance and recalibration.

Why Honeywell?

With the Honeywell Elster TwinSonic^{plus} you're choosing technology that's field proven in demanding fiscal applications since 1985. You're also partnering with a Fortune 77 company, benefiting from a global reach and a local network of support across the world.

We combine leading technology with practical high quality services, including access to local inventory and spare parts, quick lead times, and fast expert support.

Through Elster and our other business lines, Honeywell has one of the most extensive installed revenue measurement bases in the world, with more than 200 million metering devices deployed in more than 130 countries.

No other supplier can match our resources or expertise for the global natural gas metering and regulating market.



Counting the Cost of Alternatives

Can you afford not to use the TwinSonic^{plus}?

- 17% annual savings through lower uncertainty
- 75% a year savings in reduced maintenance and increased uptime
- 45% lower capital expenses against a two-meter solution.

For more information

To learn more about Honeywell Elster TwinSonic^{plus} ultrasonic gas meter solutions, visit www.honeywellprocess.com or contact your Honeywell account manager.

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