

SAFETY, SUSTAINABILITY & EFFICIENCY IN GAS METERS REIMAGINED

When other meters can't, this one can.
Introducing the **NXU Residential Smart Gas Meter**.



NXU Residential Smart Gas Meter

Honeywell

SAFE AND SOUND

Nearly 70 million homes in the United States rely on natural gas for heating, cooling, appliance use and more.¹ This means almost 70 million homes in the United States are exposed to a serious, far-too-common hazard. Gas leaks, big or small, can cause fires, explosions and adverse health effects, endangering families, homes and entire neighborhoods.

An intense threat to residential safety, gas leaks aren't a new problem, nor are they slowing down; the National Fire Protection Association reports that gas leaks cause 4,200 U.S. homes to ignite each year and that U.S. fire departments respond to an average of 125,000 residential natural gas leaks annually, an increase of 25% over the last 17 years.²

Dangerous, drastic and destructive, residential gas leaks are devastating. But, with the right technology, they can be preventable. That's why the Honeywell NXU Residential Smart Gas Meter, a cutting-edge and safety-first solution, works toward gas leak prevention (and customer peace of mind) through industry-best intelligence, features and benefits.

ABOUT THE NXU RESIDENTIAL SMART GAS METER

The NXU Residential Smart Gas Meter is an ultrasonic meter with an integrated, remote gas shutoff valve and a pressure transducer.

Ultrasonic technology helps the meter measure flow rates and the density of gas composition. It can also help detect the presence of dust and liquids in the measurement path. It recognizes (and reports) changes in gas composition and flow without any turning parts. The advantages of this meter's ultrasonic technology include a compact meter size, less mechanical wear, a 20-year battery life and expected long-term accuracy and stability.

Its remote pressure transducer and shutoff valve are the keys to maximum safety:

Pressure Transducer

Designed to measure the pressure of gas flows with high accuracy, this component can recognize pressure changes and trigger alerts for inconsistencies. This helps utilities stay aware and ahead of potential leaks, remediating anomalies in close to real time. The NXU Residential Smart Gas Meter is the only residential gas meter with pressure sensing capabilities coupled with an integrated controller.

Integrated, Remote Gas Shutoff Valve

If an improper flow, temperature or pressure is detected, gas utilities can stop the flow of gas via the NXU Residential Smart Gas Meter's shutoff valve without visiting the meter. The shutoff valve has a high-pressure, precision seal and is the only residential gas meter that exceeds ASME B16.33 section 4.2 guidelines for gas tightness. The proactiveness of this device helps utilities identify and stop gas leaks at the onset. And, the torquing mechanism of the valve does not consume battery power, leading to a longer-lasting meter.



SAFETY FOR GAS UTILITY CUSTOMERS. SAFETY FOR GAS UTILITIES, TOO.

There are implications for both customers and utilities. With the NXU Residential Smart Gas Meter, fires, explosions, illnesses, injuries or fatalities as a result of gas leaks can be reduced, keeping people and property protected.

Safety can also help utilities avoid substantial fines. If a gas leak occurs and results in damages, or even if people and property are unaffected, gas utilities may face financial penalties or lawsuits that impede their ability to stay in business.



THE NXU RESIDENTIAL SMART GAS METER IS A NEXT-GEN GAS METER

The NXU Residential Smart Gas Meter puts safety first, but also prioritizes accuracy, advancement and analytics to help enhance the operational efficiency and sustainability of gas utilities.

ACCURACY

- Metering accuracy adds clarity and awareness to billing processes, resource management and resource efficiency.
- Customers can be billed correctly and equitably when consumption information is exact.
- Accurate data helps gas utilities take note of when and where consumption is highest, forecasting demand and detecting losses with greater certainty.
- Using precise data to understand consumption habits can help utilities optimize consumption for improved sustainability and better overall use of natural gas.

ADVANCEMENT

- The NXU Residential Smart Gas Meter is a smart ultrasonic meter connected via public wireless to our head-end software that provides real-time, end-to-end measurements to data management systems. This makes the secure communication, collection and analysis of all data easier than ever, especially as utilities transition to AMI 2.0.
- A tamper-alert-enabled door provides access to the field replaceable battery. This is a unique feature that allows for meters to live beyond 20 years of life.

DUAL-FORM FACTOR:

- This gas meter is a dual-form factor meter, meaning it's capable of measuring both 250 and 425 cubic feet of gas per hour, eliminating the need for a meter replacement if consumption increases.

ANALYTICS

- Accurate data that's captured in real time provides visibility into operational inefficiencies and actionable insights to better optimize metering and overall utility performance.
- This means utilities can predict failures, support energy efficiency initiatives, enable better load management, and identify patterns that signify leaks, theft or tampering.

FAST & EFFICIENT

The NXU Residential Smart Gas Meter can be installed and tested in just minutes, which decreases service costs for gas utilities and increases convenience for residential customers.

CONCLUSION

For U.S. residents and gas utilities, safety is something that can never waver. With the NXU Residential Smart Gas Meter, we'll help make sure it doesn't. Leak detection, remote shutoff and pressure transduction can help stop serious incidents and dangers before they start, making sure people and property are safe and sound. Added accuracy, analytics and advancement are promises, too, that can help gas utilities achieve greater overall efficiency and performance. When safety, efficiency and performance matter most, count on the NXU Residential Smart Gas Meter.



1. National Gas Supply Association. "Residential and Commercial Uses of Natural Gas." Accessed 18 June 2024. <https://www.ngsa.org/residential-and-commercial-uses-of-natural-gas/>.
2. Verzoni, Angelo. "Perspective Early Warning." *NFPA Journal*. The online magazine of the National Fire Protection Association. 1 November 2020. <https://www.nfpa.org/news-blogs-and-articles/nfpa-journal/2020/11/01/gas>.



For more information

<https://automation.honeywell.com/us/en/solutions/smart-energy/products/nxu>

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THE
FUTURE
IS
WHAT
WE
MAKE IT

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