

REMOTE SOLUTIONS FOR GAS DISTRIBUTION UTILITIES

Reduce risks and drive down costs
by connecting across the network.



Honeywell

Honeywell's remote services for gas distribution put utility operators in control. We'll help enhance safety, prevent incidents and manage maintenance more effectively. A broad portfolio provides the insights, notifications and records required to oversee the operation economically and safely, from wherever you are.

Choose from a range of devices and software that give you the flexibility to tailor a solution to your needs and budget. Our technology builds on decades of experience providing reliable pressure measurement and the most sophisticated, simple and secure connectivity solutions available today.

COUNTING THE COST

Reliable and timely pressure measurement is essential for safe operations for all gas distribution operators. Failure to capture and control critical measurements can result in rising maintenance costs, regulatory penalties and downtime. At its worst, the price of failure can be counted in lives.

For safe and efficient operations, distribution businesses need to capture pressure data, turn it into actionable intelligence and get it to the professionals who need it. Faced with dispersed operations, skills shortages, and more recent pandemic-related controls, the expertise you need won't always be onsite.

Honeywell has solutions to automate, analyze and inform, ensuring safety and keeping control of costs:

- The right information
- to the right people,
- at the right time... for better decisions and operations.

WHY HONEYWELL?

EXPERIENCED

Deep domain knowledge and field-proven technology for safe, reliable pressure measurement.

FLEXIBLE

Solutions for every need, from records and audit trails to real-time monitoring and incident response.

SECURE

A leader in cybersecurity, providing secure connectivity solutions, hosting and VPN services.





A LEADER IN GAS MEASUREMENT INSTRUMENTS

Field-proven gas measurement devices underpin all of Honeywell's remote solutions. Our solutions are used by operators across industries worldwide to provide robust, reliable readings and secure transmission of pressure, temperature and flow data.

The ERX 350 for Safe and Dependable Electronic Pressure Recorder

The ERX 350 is a reliable end-of-line, low-pressure point district regulator for system pressure monitoring, records and alarms. It's used by gas distribution and transmission companies to measure inlet and outlet pressures across the grid.

It comes with 2 pressure inputs, 1 Temperature input and 3 digital inputs and provides best-in-class accuracy, an extensive memory, advanced diagnostics and intuitive operation. A long battery life, long-term stability and a plug-and-play digital pressure transducer ensure low maintenance costs.

Cloud Link: A Robust, reliable 4G modem

The Cloud Link is Honeywell's 4G LTE and Cat M1, CSA, Class I Div 2 approved cellular modem designed for battery-powered applications and outdoor operations. Paired with the ERX 350

pressure recorder, it's the simple solution for getting field measurements to the people and systems that need them.

For operators, Cloud Link offers users an intuitive and flexible solution. Often used to send hourly pressure readings and daily data for audit trails, it also handles reports by exception to host systems in the event of alarm conditions. High-frequency logs enable troubleshooting and post-event investigation.

Cloud Link is designed to simplify maintenance and reduce the need for site visits:

- Easy to configure and troubleshoot
- Fully field programmable
- Bluetooth low energy interface for wireless configuration
- Minimal power to operate and long-life lithium battery.

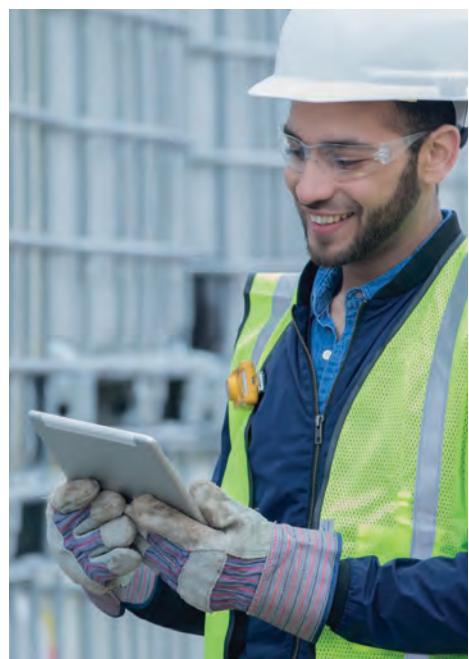
MiWireless 350 for Always-on Monitoring

MiWireless 350 power and communication assemblies provide an online solution for always-on monitoring of key pressures. The latest low-energy technology with options for solar power, MiWireless provides continuous pressure readings to the SCADA system. MiWireless 350 assemblies

can accommodate up to 3 pressures, 1 temperature and 3 digital inputs.

MiWireless records inlet and outlet pressure, as well as temperature. A third pressure input can be used for recording jacket or intermediate pressure measurement.

As well as pressure monitoring in gas transmission and distribution, the solution is also ideal for electronic volume correction in demanding custody transfer applications. It is available with a CSA class 1 division 2 hazardous area certification.





Controledge MI

ControlEdge™ MI is a modular and scalable field solution for remote automation and control applications. With remote monitoring, diagnostic and asset management capabilities, it helps Gas distribution and transmission companies confidently manage complex remote automation and control applications.

The solution includes our ControlEdge™ RTU Controller with powerful features:

- Robust design for harsh environments at remote sites
- Remote maintenance, reducing the trips to the field
- Native controller redundancy, Hart-enabled onboard I/O and expansion I/O modules
- No specialized modules needed to integrate ISA100 instruments, with wired and wireless I/O devices programmed and managed with the same configuration tool.
- Removable and plug-in terminal blocks to simplify wiring.

A 4G Cellular modem, 8" Color LCD screen and power supply (AC/DC or solar power) complete the Controledge MI package for a fully integrated solution. Control Edge MI is

compatible with most SCADA systems used in the natural gas distribution industry. It is a great compliment to Mercury ERX350 and MIWI ERX when control or additional IO are needed.

SMART SOFTWARE TO PUT YOU IN CONTROL

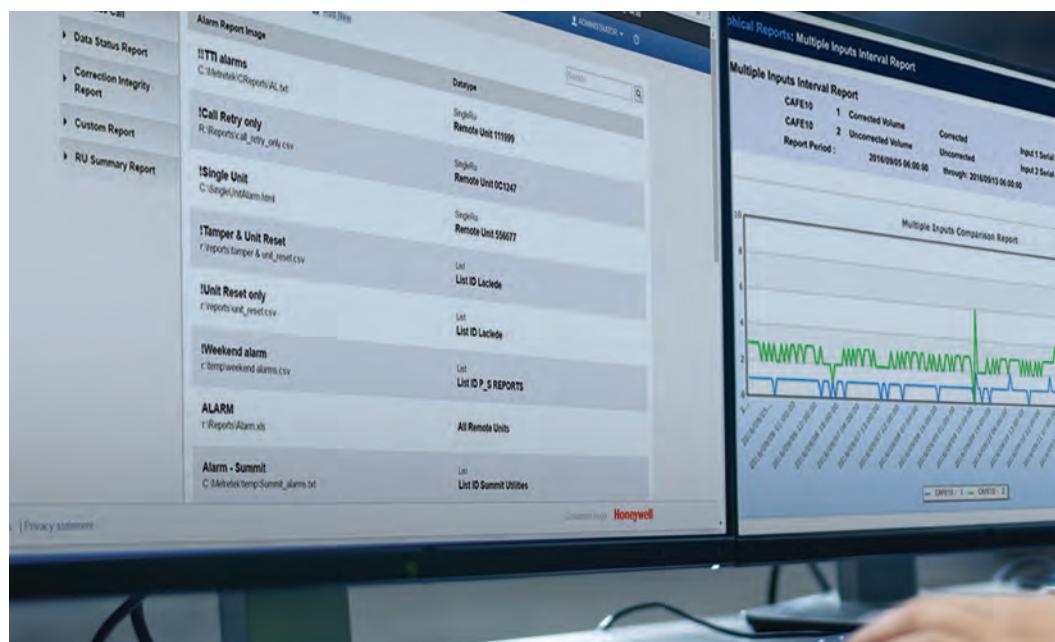
Honeywell's software makes sense of your data to drive deeper insights and better decisions to promote safety and efficiency across the network. In the Cloud or on-site, Honeywell software is intuitive and powerful, giving the functions you need without the complexity you don't.

PowerSpring meter

data management (MDM) system

PowerSpring helps gas distribution and transmission businesses get the most from their smart meters. It's the essential tool for integrating advanced metering and IT infrastructures, getting meter data to the people and systems that need it across the enterprise.

Using Microsoft's powerful and flexible SQL Server, PowerSpring provides a database repository that automates the complex process of collecting meter data from multiple meter data collection technologies. It aggregates interval



meter data and checks data quality before publishing it in the appropriate format for enterprise systems, including billing, metering, operations, engineering and customer service solutions.

Combined with smart metering infrastructure, PowerSpring can also handle storage and distribution of non-billing data and messaging, including two-way commands, pressure alarms, outage alarms, zero flow conditions and tamper alarms.

Total Data Services (TDS):

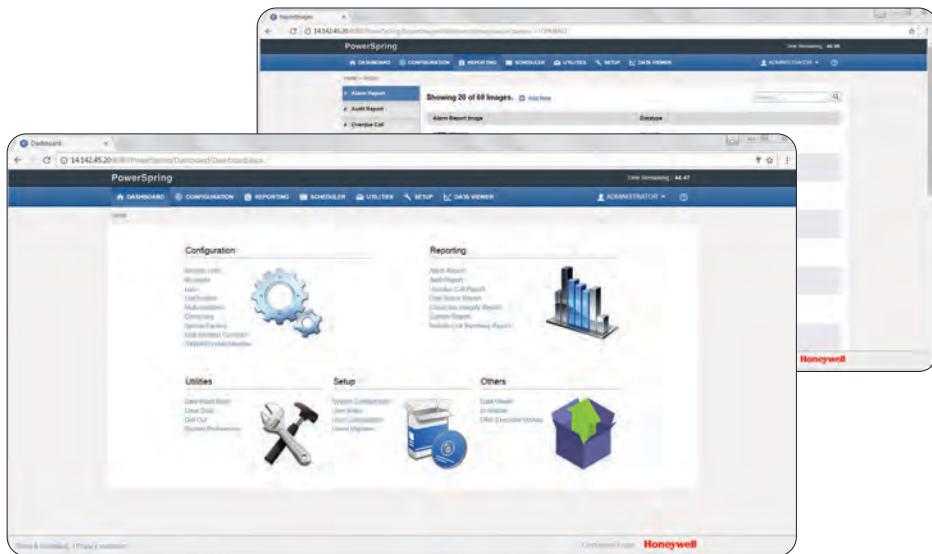
Cutting Costs with the Cloud

TDS is Honeywell's hosted solution for meter data management and smart metering. It's your complete, customizable, Cloud-based energy management platform.

With TDS users have secure access to interval meter data (load profile) and optional device alarms and gas system pressure data. Get your information, wherever you are, whenever you need it.

TDS's delivers a range of features that will enhance your insight and improve your business:

- 24/7 access to data
- Near real-time reporting of interval meter data and exceptions



- Improved energy portfolio management with more accurate nominations for marketers and traders
- Hourly, daily or monthly usage reports and comparisons with historical data
- Support for demand-side management and energy conservation initiatives
- Identification of abnormal energy usage
- Improved insight into energy consumption for more accurate product pricing.

Requiring limited upfront investment, TDS is a Cloud-based solution that's quick and simple to deploy and fully scalable, while eliminating requirements for software maintenance and server hardware.

NETWORK INFRASTRUCTURE

Honeywell is a leader in cybersecurity, and with our private and virtual private networks, customers can ensure they stay safe from online threats.

Private and VPN services make your pressure recorders, data management systems and other connected devices invisible outside the network, significantly reducing the chance of attack. We'll also use all our knowhow and security tools to ensure your network is as secure as possible, while still easy to set up and maintain.

Choose from local installation or hosted solutions for a network solution meets all your needs.

ABOUT HONEYWELL PROCESS SOLUTIONS

Honeywell Process Solutions (HPS) helps industrial customers around the world operate safe, reliable, efficient, sustainable, and more profitable facilities. Our technologies, from the plant floor to the boardroom, and comprehensive lifecycle services ensure more productive and stable operations.

HPS has pioneered process automation control for more than 40 years, from legacy process control systems to today's leading innovations such as Experion PKS. We protect our customer's investments in automation assets.

With more than 12,000 employees around the world, HPS has the global expertise and breadth of resources to execute projects of every size and complexity. Customers across the globe depend on us in the oil and gas, refining, pulp and paper, industrial power generation, chemicals and petrochemicals, biofuels, life sciences, and metals, minerals, and mining industries.



				
APPLICATION	Offline monitoring of Gas Distribution grid pressure point. Good for investigation after the fact and permanent records. Can log at high frequency for after event troubleshooting.	Online/Offline monitoring of Gas Distribution grid pressure point. Typically records hourly pressure information and sends daily audit trail and reports by exception (RBX) to host system upon alarm condition.	Online monitoring of Gas distribution station. 24/7 accessible.	Full Gas distribution Station Monitoring and control.
I/O CAPABILITY	Up to 2 pressures. Temperature. Up to 3 digital Inputs (intrusion, water alarms)	Up to 2 pressures. Temperature. Up to 3 digital Inputs (intrusion, water alarms)	Up to 2 pressures. Temperature. Up to 3 digital Inputs (intrusion, water alarms)	8 to 24 Analog Inputs, 2 to 6 Analog Outputs, 10 to 30 Digital Inputs, 6 to 18 Digital Outputs, 2 to 6 Pulse Inputs. Redundant controller
COMMUNICATION	Requires manual on site download with PC No SCADA integration.	The device only calls on alarm and scheduled calls but is not reachable the rest of time.	Communication link can be ON 24/7 for online monitoring.	Communication link can be ON 24/7 for online monitoring.
POWER SUPPLY	Alkaline or Lithium batteries.	Lithium batteries.	AC/DC power or solar panel needed	AC/DC power or solar panel needed

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For more information

To learn more about Mercury Instruments products, contact your Honeywell account manager or visit www.mercuryinstruments.com or call 513-272-1111.

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THE
FUTURE
IS
WHAT
WE
MAKE IT

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