WHY INVEST IN AN INTEGRATED GAS METERING SOLUTION?
Effective Approach to Optimize Today’s Gas Value Chain
For natural gas companies, there is growing pressure to deliver more energy, increase profitability and minimize financial losses. Greater expenditures are needed to ensure system integrity and replace aging infrastructure. Operators must also reduce operating costs and tightly control capital budgets. This requires optimization of the distribution infrastructure used to deliver natural gas to households and commercial and industrial (C&I) consumers.

TABLE OF CONTENTS

2 Introduction
3 Today’s Critical Demands
4 Why Take an Integrated Approach?
5 Benefits of Honeywell’s Gas Measurement and Data Management Solutions
6 Improve Measurement Accuracy
7 Extend Performance and Asset Life
8 Enhance Data Collection and Transmission
9 Automate Configuration and Calibration
10 Optimize Meter Data Management
11 Honeywell: A Single Source for All Your Needs
Introduction

Gas industry firms need to effectively store, transport and deliver gas globally to meet rising demand. Gas metering data must be collected more frequently and in smaller increments. The trend towards smart metering demonstrates the importance of Meter Data Management (MDM) in realizing the full potential of Advanced Metering Infrastructure (AMI).

With decades of natural gas measurement and control experience, Honeywell offers solutions to optimize today’s gas value chain. Our Gas Measurement and Data Management Solutions range from advanced electronic volume correctors and collaboration software, to robust meter data management systems turning operational data into valuable knowledge.
TODAY’S CRITICAL DEMANDS

The natural gas industry presents complex challenges. Companies must find ways to operate safer, make better decisions and act quicker by more efficiently delivering crucial asset data from operations to enterprise.

HIGHER OPERATING COSTS
Impacts business performance and profits

INCREASED RISK TO ASSETS
Poses threat to operational reliability and uptime

TIME-CONSUMING DATA COLLECTION
Makes it too difficult to determine asset health

TECHNOLOGY OBSOLESCENCE
Limits efficiency and productivity improvements
WHY TAKE AN INTEGRATED APPROACH?

Your gas industry organization is committed to making natural gas delivery more efficient and cost-effective. To do this, you need the most modern gas measurement and control solutions possible—tightly integrated to meet your operational and business requirements.

RELY ON HONEYWELL

Honeywell delivers best-in-class measurement, control and analysis solutions to gas industry customers around the world. Our Honeywell Mercury line pioneered precision instrumentation, and today we provide end-to-end, smart metering solutions for everything from wellhead to burner tip applications.

IMPLEMENT HONEYWELL’S SOLUTION TO ACHIEVE OPERATIONAL EXCELLENCE

Honeywell’s advanced technology helps gas transmission and distribution companies increase efficiency, protect assets, save money, and safeguard the environment. Our products and services also enable superior performance and optimal maintenance that extends the life of critical investments.
BENEFITS OF HONEYWELL’S GAS MEASUREMENT AND DATA MANAGEMENT SOLUTIONS

ADOPT “FUTURE-READY” TECHNOLOGY
The world is changing. Regulators and consumers alike are pressuring gas industry companies to improve the way they monitor and report gas consumption so they can better address environmental and efficiency concerns. Firms are beginning to realize the operational savings they can achieve from smart metering technologies and related processes.

IMPLEMENT A COMPLETE, END-TO-END SOLUTION
Honeywell provides the highest standard for gas measurement products and corrected gas volume. Users migrating from legacy systems can take advantage of a complete, end-to-end solution that’s future-ready for emerging technologies like the Industrial Internet of Things (IIoT) and provides a host of valuable productivity benefits.

• State-of-the-art PTZ gas volume corrector
• Highly accurate rotary gas meter
• Advanced 4G low-power wireless modem
• Innovative configuration and calibration software
• Powerful meter data management software
IMPROVE MEASUREMENT ACCURACY

Electronic gas volume correctors (EVCs) have become the instrumentation choice of many utilities and industries. However, there is a need for EVCs with greater accuracy, since this technology is relied upon for the custody transfer of natural gas in residential, commercial and industrial applications around the globe.

INSTALL A BEST-IN-CLASS PTZ GAS CORRECTOR

Honeywell’s EC 350 PTZ Gas Volume Correctors are intended to simplify and optimize custody transfer and industrial measurement. This new electronic corrector platform offers best-in-class accuracy, expanded memory, advanced diagnostics and integrated cellular communications.

- Greater flexibility in gas volume correction
- Intuitive operation for all corrector applications
- Versatile UMB-, rotary- and wall-mount options
- Expanded communication options via internal cellular modem
- IR port allowing for easy configuration
- Advanced audit trail
- Robust diagnostics to reduce maintenance
- Extended 10-year lithium battery life
- Low ownership and operating costs
- Reverse flow capability
- Accurate plug-and-play digital pressure transducer
EXTEND PERFORMANCE AND ASSET LIFE

Gas distribution companies require very robust and accurate measurement instruments. Their applications demand gas meters with exceptional performance and reliability. This includes low pressure drop, wide range-ability, and high maximum operating pressure.

CHOOSE A HIGHLY ACCURATE ROTARY GAS METER

Rotary gas meters are characterized by extended measuring ranges and compact dimensions. They ensure high accuracy, even if the gas flow is low or irregular. The Honeywell Elster® Rotary Gas Meter is based on proven technology, with advanced features to meet tomorrow’s requirements.

- Greater range-ability than competitive meters
- Significant reduction in device inventory
- Increased maximum operational pressure (MAOP)
- Low pressure drop enabling flexibility in station design
- Reduction in hazardous noise for safer operations
- Reduction in piston speed for longer asset life
- Low total cost of ownership
- Simple installation and commissioning
- Compact design and ease of use
- Environmentally friendly
- Bundled with electronic volume corrector for single-vendor sourcing
ENHANCE DATA COLLECTION AND TRANSMISSION

For gas operators deploying gas volume correctors in MDM/AMI applications, the use of an integrated versus external cellular radio device simplifies installation, configuration and set-up, while improving operational efficiency and reliability. By optimizing low-power consumption and fast booting and connection to the network, this design also contributes to long battery life.

DEPLOY AN INTEGRATED CELLULAR MODEM

Designed for battery-powered applications and outdoor operations, the Cloud Link 4G Modem is an easy to configure and troubleshoot wireless cellular modem. Integrated with the EC 350 volume corrector, it is fully field-programmable and simple to use through its short-range wireless communication or serial interfaces, and associated set of programming software.

- 4G LTE transparent serial communication unit
- Lowest power consumption on the market
- Certification with AT&T, T-Mobile, Verizon and Rogers
- Fall-back to UMTS/HSPA and GSM/GPRS
- RS232/485 interface
- Single digital input
- Internal modem power control
- Configuration via MasterLink (PC and app versions), over the air or using the RS link
AUTOMATE CONFIGURATION AND CALIBRATION

Companies involved with gas transmission and distribution are responding to market conditions with a renewed focus on improving efficiencies and cutting costs. In particular, they need standardized terminology making it easy to configure and calibrate instruments, import data, and generate reports and graphs—eliminating time-consuming manual effort.

UTILIZE A ROBUST SOFTWARE SOLUTION

Honeywell’s new MasterLink provides a single software package to configure, calibrate and access data from gas volume correctors. Its intuitive dashboard enables users to quickly determine the overall health status of the instrument and make the most of digital innovation and mobile technology.

- Automation of routine configuration and calibration tasks
- Increased productivity and cost savings
- Reduced time spent in the field
- Ease of locating devices at unfamiliar sites
- Comprehensive site survey to eliminate uncertainty before CAPEX decisions
- Remote TAC support to minimize downtime
- Integration to meter data management and cloud solutions
OPTIMIZE METER DATA MANAGEMENT

Investing in smart grid and AMI solutions is one thing, but capitalizing on the wealth of valuable data they provide is something else. Success hinges on advanced MDM technology, which can deliver meter data throughout the enterprise and turn it into valuable knowledge.

LEVERAGE A POWERFUL MDM SYSTEM

Honeywell’s PowerSpring® data collection and software suite allows for easy, browser-based user interaction with remote monitoring and data management assets. The system offers the power and flexibility of the latest MDM/AMI technologies, utilizing Microsoft®’s Windows® OS 2012 and SQL 2012/2014 platform for effective and flexible performance in demanding MDM applications.

- Powerful data collection capabilities
- Evaluates quality of data from multiple technologies
- Handles non-billing data and messaging
- Expanded repository for data storage
- Web-based user interface
- Customizable, flexible, and scalable architecture

- 24/7 on demand access to TAC support
- TAC can access EVC conf. through technician’s phone and make/suggest changes
- Help locate field devices by assigning GPS coordinates and picture to Site ID
- Saves time when trying to locate the instrument
- Informs customer the need for servicing any nearby instruments in the field
- Saves truck rolls
- Allows configuration of device without being physically connected to it
- Saves time on field
- Quickly identify orderable part numbers
- Automated generation of quotes
- Examine cellular coverage levels at sites to determine feasibility
- Report available to compare sites
- Provides actionable intelligence
- Improves and expands the scope of preventive maintenance
HONEYWELL: A SINGLE SOURCE FOR ALL YOUR NEEDS

Honeywell has spent decades developing products and services for measurement and control projects in the natural gas industry. We provide comprehensive solutions, whether networked or stand-alone, from a single dependable source. Honeywell products are backed by a comprehensive warranty and a Technical Assistance Center staffed by personnel with solid product knowledge.

MAKE THE RIGHT CHOICE

Honeywell offers industry-leading control, measurement and analysis equipment to gas utilities and other users around the world. We are recognized for long-term reliability and performance; lowest total cost of ownership and installation; and outstanding technical training, field support and customer service. This includes a track record of providing backwards compatibility and a path forward for our customers.

Today, no manufacturer offers more products and services for the natural gas industry than Honeywell. With the most complete product portfolio, and global service and support capabilities, we have the solution you need—ready for immediate delivery.