

THE COMPLETE PORTFOLIO FOR NATURAL GAS SKID AND STATION BUILDERS



Honeywell

THE COMPETITIVE EDGE

Honeywell's System Integrator Program includes access to the most comprehensive product portfolio for pressure control and custody transfer measurement in natural gas transmission and distribution networks. Get expert assistance from quote to cash and a single-stop supplier for all critical equipment and software. Honeywell brands Elster, HON Bryan Donkin, HON Gortor, AMCO are industry standards, offering superior technology, unmatched performance, and extended service lives.

Honeywell helps skid and station builders with a broad, flexible offering to support their modular and customized solutions. We take the pain out of integration:

- A single source for all natural gas and hydrogen applications, with meters, regulators, slam shut, flow control, relief, transmitters, flow computers, EVC's, gas chromatographs and related software

- A globally-certified product range approved with all leading transmission and distribution companies, major EPCs and OEM's.
- Pre-tender support for sizing, selection and pricing, based on application
- Faster, simpler integration with a single supplier
- FAT and SAT support with standardized procedures and video guides.
- Unparalleled, worldwide services and support
- Flexible upgrade and migration options.

From regulators to ultrasonic meters, and sales to service, Honeywell's end-to-end offering combines industry-leading technology, a world-respected brand, and in-depth application expertise.

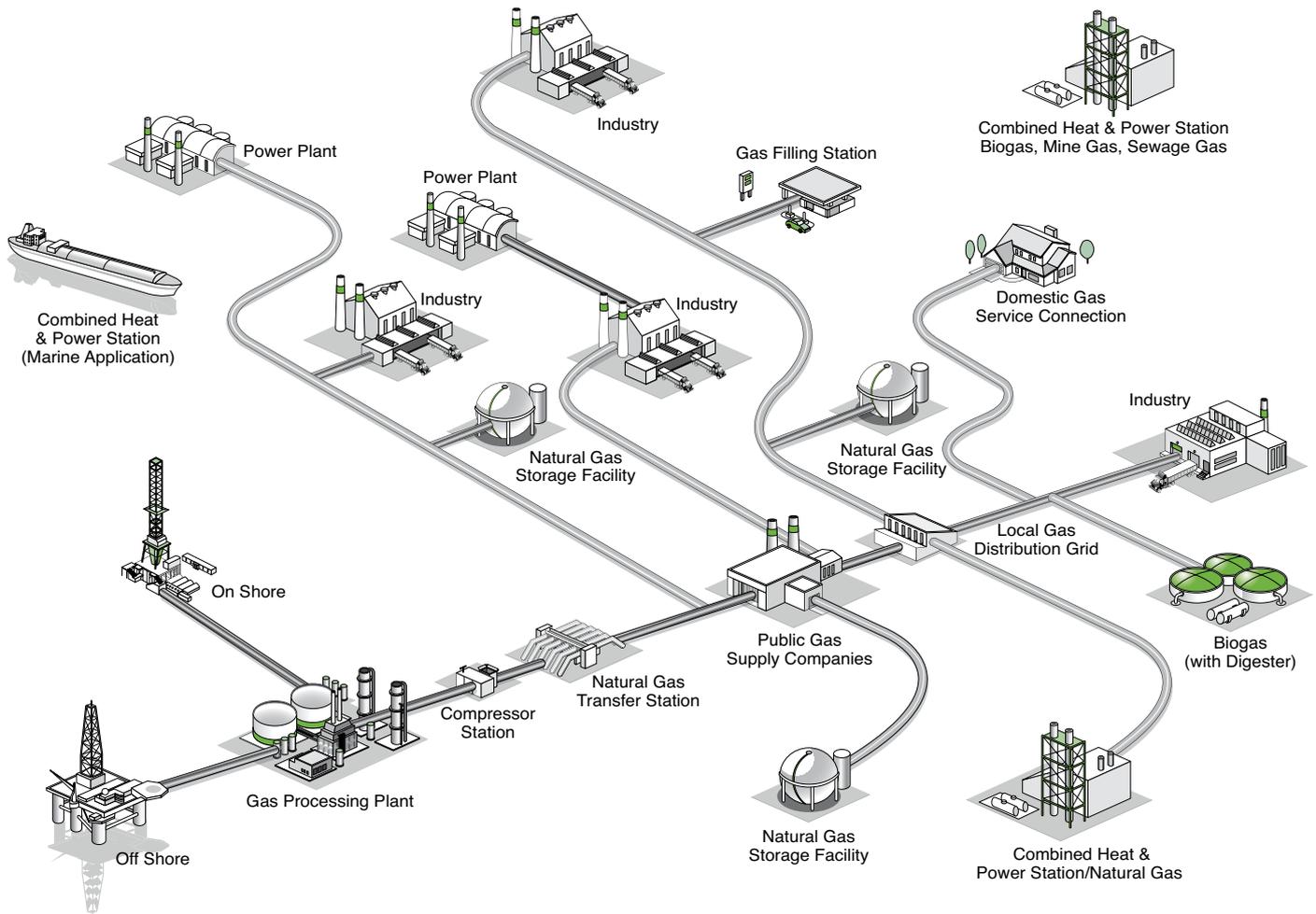
FOR EVERY APPLICATION

- Pressure and flow control
- Safety shut off and relief
- Odorization
- Filtration
- Custody transfer metering
- Gas quality measurement
- Pressure and temperature measurement
- Automation and remote control
- Programmable logic control



THE PRODUCT RANGE

Across the natural gas value chain, Honeywell provides market-leading solutions encompassing all critical applications.



PRESSURE REGULATORS

Honeywell's gas regulator product line delivers reliable operations for a wide range of applications in the gas value chain. A comprehensive product portfolio gives precise and reliable pressure control. Our rugged and accurate gas pressure regulators, control and safety valves provide outstanding long-term performance and a low cost of ownership.

Our products are used in applications across the gas value chain – accurately regulating inlet pressures as low as 100 mbar (1.5 psi) and as high as 350 bar (5000 psi). Our offering also includes all auxiliary equipment you need for a full pressure reduction offering, including safety valves, actuators, filters, gas pre-heaters and venting valves.



HON R100 SERIES

A globe design pilot operated regulator

- Size - 1" / DN 25 to 12" / DN 300
- Standard construction class #150, # 300, #600
- Available in fail-open and fail-close construction
- In-built silencer
- Higher flow rates.
- In-line maintenance
- Option for electrical, optical position indicator and remote control



HON HSV086

A globe design safety shut off valve

- Size - 1" / DN 25 to 16" / DN 400
- Standard construction class #150, # 300, #600
- In-line maintenance
- Over pressure and under pressure protection
- Options with limit switch and remote shut off



HON C210 / HON 530

A flow control valve with both axial and globe designs

- Size - 1" / DN 25 to 12" / DN 300
- Standard const class #150, # 300, #600
- In-built silencer
- Available with pneumatic and electrical actuator



HON AFV SERIES

An axial design pilot operated regulator

- Size - 1" / DN 25 to 12" / DN 300
- Standard construction class # 300, #600
- High Cg for similar size valves.
- Relief valve application
- Cage DN50 available in 10%, 25%, 50%, 100%



HON 5020 SERIES

A globe design pilot operated regulator

- Size - 1" / DN 25 to 6" / DN 150
- Standard construction class #150, # 300, #600
- Integral slam shut option
- In-built silencer
- Trims available in 25%, 50%, 75%, 100%
- Relief valve application
- Option for electrical, optical position indicator and remote control



SLAM SHUT SERIES

A globe design safety shut off valve for # 300 (HON 720)

And a globe design safety shut off valve for # 150 (HON S100)

- Size - 1" / DN 25 to 6" / DN 150
- In-line maintenance
- Over pressure and under pressure protection
- Options with limit switch and remote shut off



TRANSMISSION

Metering is the cash register of the natural gas business. With tight margins, complex supply chains, and diverse gas sources, metering equipment performance has never been more important.

Honeywell provides a complete solution for all the major parts of the gas metering skid, including flow meters, pressure and temperature transmitters, flow computers and energy meters. Helping minimize uncertainty, maximize reliability and reduce ownership costs, we provide all you need for a complete, efficient and precise metering solution.

At the heart of our offering is our ultrasonic meters. Using patented eight or six-path configurations, they provide detailed flow profile recognition, superb noise immunity, and unrivaled pressure and gas velocity abilities – all while maintaining the highest accuracy in their class. Our gas chromatographs, meanwhile, are specially designed for natural gas energy measurements. Chromatography components are based on the latest micro electro-mechanical systems (MEMS) and capillary column technique. Finally, the GasLab Q2 provides quick, flameless and accurate detection of heating values.



Q.SONIC^{MAX}

The new benchmark in ultrasonic meter accuracy for custody transfer

- Best-in-class ultrasonic flow meter (class 0.5)
- 8-path, reflective and direct technology
- Sizes 4" to 36" with larger sizes available on request (DN 100 to DN 900)
- Pressure ratings ANSI class 150 to 1500 PN on request
- All-metal-encapsulated, intrinsically safe transducers
- Internal temperature sensor
- Flow profile detection with swirl and asymmetry measurement

Q.SONIC^{PLUS}

The multipath ultrasonic meter custody transfer standard.

- Unique patented 6-path reflective configuration
- Sizes 3" to 36" – larger sizes available
- Upon request (DN 80 to DN 900)
- Pressure ratings ANSI class 150 to 1500 PN on request
- All-metal-encapsulated intrinsically safe transducers
- Measurement of swirl component (double reflecting paths) – pipe wall condition monitoring, fast detection of liquid and dirt build-up



ENCORE FC1 SERIES

The Honeywell Elster enCore FC1 flow computer is designed for gas and/ or liquid measurement applications and the corresponding calculation algorithms. Multi-stream functionality and advanced logging properties with a wide range of security and communication features are available

- Modular hardware and software architecture
- Enhanced data logging functionality
- Calculations according to AGA/ISO/API/GPA
- Ethernet: HTTP/MMS/Modbus/NTP protocols
- USB front panel interface for easy but secure access via laptop
- Configurable layout of user-defined displays
- Multiple language system (selectable online)
- Optionally integrated intrinsically Ex-barriers
- Low power consumption



Transmission networks



Power plants



Transmission networks



Power plants



ENCAL 3000

Our flagship gas chromatograph

- Low carrier gas usage for low OPEX
- Up to four channels for highly extended measurement up to C₁₂
- C₆+ within 3 minutes/
C₉+ within 5 minutes
- Repeatability on BTU < 0.005 %
- Double block and bleed/
up to 5 streams
- Large ambient temperature range,
Exd and IP 66 outdoor housing
for installation anywhere
- Calculations in accordance with
the latest ISO 6976/GPA 2172
- Large application range including
hydrogen, biomethane and THT



Transmission
networks



THE ENCAL 3000 PROCHAIN

The compact gas chromatograph for installation in hazardous areas

- Lowest carrier gas usage in
the world for lower OPEX
- Easy configuration via enSuite
platform for quick start-up time
- Cyber secure by design
- Large ambient temperature range,
Exd and IP 66 outdoor housing



Distribution
networks



THE GASLAB Q2

The correlative device for quick, flameless and accurate detection of natural gas heating value.

- No carrier gas usage for low OPEX
- Realtime measurement (1 update
per second/T90 2 seconds)
- Very stable platform (200+ units
in the field without failure)
- Local HMI display for
troubleshooting
- Exd and IP 66 outdoor housing



Power
plants



Distribution
networks



SERVICES, SUPPORT AND LEARNING

Our experienced R&D, Engineering and Service teams have decades of experience, helping gas operators worldwide automate and optimize for more effective operations.



TOTALCARE ENHANCED: ONSITE SUPPORT

Dedicated regional services teams support our system integrators with installation, commissioning and advice on upgrades, life cycle services and risk-free switching to Honeywell technology. We'll help ensure you and your customers continue to enjoy peak performance from Honeywell equipment and components throughout their lifetime.

TotalCare Enhance entitlements:

- Onsite support (Maintenance and Spare Parts Management)
- Validation and Upgrades
- Premium Remote Service
- Diagnostic Software



TOTALCARE LITE: REMOTE SERVICE AT ITS BEST

You do not always need help onsite; sometimes a quick and fast response does the job. Our Premium Hotline support makes daily life easier and supports confident and fast resolutions.

Online, classroom-based and hands-on training, scheduled throughout the year, also ensures your engineers and technicians have the skills to deliver automation and optimization projects safely, swiftly and efficiently.

TotalCare Lite entitlements:

- Premium Hotline support
- System support (remote commissioning, support on protocol communication and device integration, customized programming)
- Technical training.



MANAGING YOUR DEVICES

Honeywell offers system integrators a lot more than just measurement and regulation. With our software solutions we provide our partners with a full suite of applications to monitor, control and improve the overall performance of their devices in the field.



ISS^{PLUS}: OPTIMIZING CONTROL AND MONITORING OF METERING INSTALLATIONS

Honeywell's ISSplus measurement and control system for metering installations combines more than 20 years' experience in automation of bulk gas control and monitoring with the latest technologies. It can consist of a single supervisory computer or redundant configurations with or without client stations.

ISSplus fully integrates Honeywell's Elster® products, providing synergy with the Measurement IQ™ condition-based monitoring (CBM) system.

It brings unique advantages to gas operations:

- Secure automated control and monitoring of critical metering functions
- Advanced redundancy and data synchronization for the highest availability
- Superior calculation, data processing, reporting, trending and communication capabilities.



Transmission networks



Power plants



HONEYWELL MEASUREMENT IQ FOR GAS (MIQ): CONDITION-BASED MONITORING FOR YOUR DEVICES

The all new MIQ Optimize provides a single enterprise-wide view for upstream operators and delivers clear and actionable recommendations to maximize the value obtained from your measurement infrastructure.

Honeywell's integrated approach is built on more than a century of measurement expertise. It helps improve reliability, identifies critical trends before they affect operations, and reduces your overall maintenance cost by allowing you to focus on the topics that really matter.



Transmission networks



Power plants



HONEYWELL'S SYSTEM INTEGRATOR PROGRAM

Honeywell's System Integrator program strengthens our partnership with our critical integrator partners. We've developed a range of tools, systems and incentives to support system integrators more effectively and help build their business.

The program supports SIs and gives access to our full range of solutions: Control and safety systems, terminal automation, natural gas products and software. We're partnering with our system integrators to win more business, solve complex problems and serve them and their customers better. With access to toolkits, sales leads, training and competency management support, we're working together to enhance efficiency, improve execution, develop sales and optimize day-to-day operations

Contact us today to find out more about the range of tools, support and incentives included and why we're better together.



For More Information

To learn more about Honeywell's Gas portfolio,
please visit www.HoneyweProcess.com/

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BR-21-18-ENG | 07/21
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**THE
FUTURE
IS
WHAT
WE
MAKE IT**

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