## Process Measurement and Control Facts

### Did you know?

<table>
<thead>
<tr>
<th>Global Installed Base</th>
<th>Meeting Demand</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000,000+ gas regulators in the field</td>
<td>In Japan, Honeywell Terminal system powers one of world’s largest terminals handling around 1,400 trucks a day</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Superior Technology</th>
<th>Safety &amp; Security</th>
</tr>
</thead>
<tbody>
<tr>
<td>Honeywell Enraf has supplied over 100,000 additive injectors worldwide</td>
<td>SmartRadar Flexline provides overfill protection to 53 oil installations of HPCL, India’s leading oil major</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Finest Precision Instrumentation</th>
<th>Satisfied Customers</th>
</tr>
</thead>
<tbody>
<tr>
<td>500,000+ electronic gas correctors installed in North America</td>
<td>Largest Middle East Oil co. purchases 10,000 Honeywell transmitters for green field refinery</td>
</tr>
</tbody>
</table>
Process Measurement and Control

Comprehensive portfolio of products and software to increase accuracy, efficiency, and reliability for the lowest total cost of ownership

- IIoT ready
- Modular designs
- Intuitive Honeywell User Experience
- Faster, easier maintenance
- Lower inventory costs
- Integrated with control system

1. Field Instrumentation
2. Gas Measurement
3. Terminal Operations
4. Scalable Control Solutions
5. Life Cycle Services
Smart and Connected Measurement

Integration with Experion® PKS

- Dramatically improve situational awareness
- Reduce response time in abnormal situations
- Ensure a more efficient, on-time, on-budget plant start

Smart Instruments integrate with Experion PKS to help customers make better use of data.
Field Instrumentation

A global supplier of field instrument products that provide great performance, lowest cost of ownership and the best system integration

We offer a full line of field measurement devices in various performance, feature and options specific for your application requirements

Markets
- Refining / Petrochemical
- Oil and Gas
- Chemicals
- Power Generation
- Minerals, Metals, and Mining
- Pulp and Paper

Products / Services
- Pressure transmitters
- Temperature transmitters
- Level transmitters
- Flow meters
- pH, conductivity, dissolved oxygen measurement
- Thermal conductivity
## Driving Customer Value

### Best in Class Performance
- Improved operations
- Less calibration, best long-term stability
- Higher product consistency, best Installed accuracy

### Lowest Cost of Ownership
- Modularity: lower Inventory, less trouble-shooting, reduced maint.
- Hot-work field maintenance
- No handhelds
- Superior HMI

### Seamless Integration with Experion
- Reduce project risk & schedule
- Smart Connection Suite with messaging, maintenance mode, tamper alert, FDM health view

### Reduce Complexity
- Eliminate application error
- Validate tank app. pre-order
- Online collaboration
- Pre-configured
- Polarity insensitive
Gas Measurement

A global supplier of products and solutions, for over 150 years, wherever gas needs to be measured, controlled or stored.

We design and manufacture Gas Control and Measurement products and solutions, across the value chain, to the worldwide Gas industry combining both our experience and expertise.

Products / Services

- Flow meters
- Volume correctors
- Flow computers
- Gas management software(s)
- Pressure regulators
- Safety devices
- Gas trains (land and marine)
- Integrated packages
Gas Technologies Across the Value Chain

**Midstream**

From pipeline to city gas station – high performance systems for the most critical environments

- Gas Quality Measurement with Encal3000 and Gaslab Q2
- Ultrasonic High Pressure Maximum Accuracy Measurement with Qsonicplus and TwinSonic
- Flow Computer for Gas with Encore ZM1 and FC1
- Meascon – innovative condition based maintenance today

**Distribution**

The key for the end consumer – reliable, accurate, low maintenance metering products

- World leading electronic volume conversion with Mercury EK350 and Elster EK220
- RABO, the breakthrough in positive replacement measurement.
- Turbine metering with Honeywell TRZ2 – recognized as the global reference throughout the world

**Regulation**

Managing Pressure from the oil well to the LNG tanker to your power generator

- Honeywell’s Flagship Range 5020 Pressure Regulator
- Slam-Shut-Vales for all applications with the HON711
- Standard Gas-Regulations trains for turbines and motors
## A Selection of Our Gas Offerings

<table>
<thead>
<tr>
<th>Field Instrumentation</th>
<th>Process Instrumentation</th>
<th>Scalable Control Solutions</th>
<th>Gas Measurement and Pressure Regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Offshore</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>LNG Tanker</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compressor Station</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Gas Pressure Reducing Skids</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gas Storage</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>City/Regional/LDC Gas Suppliers</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Industrial and Commercial Customers</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Gas Power Stations</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Gas Filling Stations</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block Heat and Power Plant Natural Gas</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Residential Customers</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Biogas</td>
<td>X</td>
<td>X</td>
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**Driving Customer Value**

<table>
<thead>
<tr>
<th>Safe and Accurate in Extreme Conditions</th>
<th>Meters for Flawless Performance</th>
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<tbody>
<tr>
<td>• Regulatory approvals</td>
<td>• Flawless billing accuracy</td>
</tr>
<tr>
<td>• Wide range of operational flowrates, pressures and temperatures</td>
<td>• Leading repeatability</td>
</tr>
<tr>
<td>• Max asset utilization</td>
<td>• Patented Path arrangement</td>
</tr>
<tr>
<td>• Conventional/Un-conventional gas</td>
<td>• User friendly controls</td>
</tr>
<tr>
<td></td>
<td>• Excellent Condition Based Monitoring for minimal recalibration</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Widest Range of Regulators Offered</th>
<th>Experion® PKS Integration (Skids &amp; Solutions)</th>
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<tbody>
<tr>
<td>• Excellent flow characteristics and stability</td>
<td>• Optimal delivery and situational awareness across the gas value chain</td>
</tr>
<tr>
<td>• Innovative noise reduction</td>
<td>• Unifying people with process, business and asset management to increase profitability and productivity</td>
</tr>
<tr>
<td>• Highly configurable</td>
<td></td>
</tr>
<tr>
<td>• Reliability under all process conditions</td>
<td></td>
</tr>
<tr>
<td>• Remote monitoring and control</td>
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</tbody>
</table>
Terminals and Storage Solutions

A global supplier, with more than 50 years experience, providing smart terminal solutions, inventory management, storage and operations monitoring.

We provide complete terminal solutions consultancy, design, equipment, installation and maintenance for terminal operations. Precision instruments track valuable liquids and gas during movements and storage.

Products / Services

- High accuracy radar and servo level
- Temperature profile
- Tank inventory systems
- Calibration provers
- Loading and unloading solutions
- Blending and additive injection
- Safety and security
- Terminal operations management
- MIS and TAS software solutions
# Driving Customer Value

## Storage & Tank Inventory Management
- Increased revenue
- Reduced billing errors
- Efficient oil movement and storage operations
- Safety in tank farms

## Metering and Verification
- Enhanced calibration flexibility
- Faster, more efficient and reliable
- Low cost of ownership
- Superior quality

## Loading and Blending
- Ease-of-Use
- Seamless integration with automation
- Powerful stand alone operation
- Industry first smart display
- Efficient ops.

## Turn-Key and Integrated Solutions
- Total ownership for end-to-end automation
- Front-end engineering and design
- Comprehensive after market support
Scalable Control Solutions

A global supplier of scalable control solutions that enable you to manage your plant assets and optimize your entire enterprise

We offer a full range of flexible and integrated automation solutions that provide a lower installed cost and improve end product quality for any size or operation from the single loop controller to full size DCS control systems.

Markets
- Refining / Petrochemical
- Oil and Gas
- Chemicals
- Power Generation
- Minerals, Metals, and Mining
- Pulp and Paper
- Food & Beverage
- Pharmaceuticals
- Thermal Processing

Products / Services
- Experion LX DCS
- SCADA
- PLC
- RTU
- Single loop controllers
- Actuators
- Safety System Controllers
- Paperless recorders
# Driving Customer Value

## Purpose-built and Easy-to-Use DCS
- Proven DCS
- Serving multiple industries: Chemicals, Industrial Power, Food & Beverage, Pharma, Water & Waste Water

## Easy-to-Use System
- High Performance
- Process and safety applications
- Heat treatment
- SIL2 rated shutdown, F&G, critical control

## Powerful and Scalable RTU
- 20/20 vision: efficient remote monitoring, diagnostic and asset mgmt.
- Remote automation and control apps with lower TCO

## Control with Access to Process Data
- Control, process monitoring
- Sterilization, cold storage & batch reactor temps
- Data recording, emissions, steam & feed water flow
Continuous Evolution and Services

Unequaled Breadth and Depth of Service

- Over 40 years of experience in oil & gas transport and storage
- More than 1000 customers around the world
- More than 150 expert field service specialists, regularly trained in the factory
- Extensive work in hazardous areas (ATEX), safety (SIL), weight & measures certification, DVGW…

Increased Value and Reduced Total Cost of Ownership
Thank you