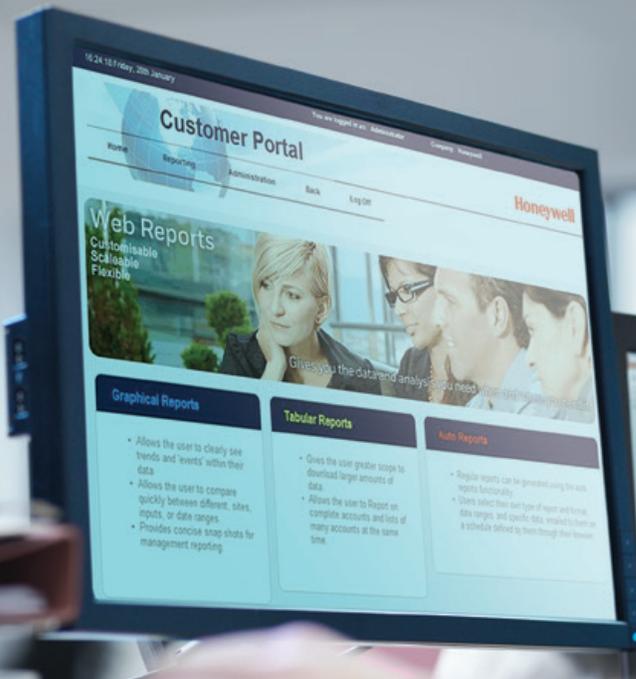


TOTAL DATA SERVICES (TDS)

Do More with Your Smart Metering Data



Today's Growing Need to Understand Energy Consumption

There is growing pressure on the natural gas industry to deliver more energy, increase profitability and minimize financial losses. At the same time, it is important to reduce operating expenses (OPEX) and tightly control capital budgets.



Leveraging the power of the Industrial Internet of Things (IIoT), TDS delivers interval meter data.

Utility companies must obtain accurate and timely energy consumption information. They're also looking for robust, customizable analytical tools to support smart metering. There is a need for advanced technology that will provide real-time access to critical meter data.

Gas industry organizations require a solution for collecting data remotely from field devices to accurately determine customer usage, and for supplying alarms and event notifications to field technicians.

In some cases, issues with gas measurement equipment mean sending personnel to remote sites for service checks and repairs, or to download data. This leads to a high cost of maintenance, and subsequently impacts the bottom line.

Web-based Tool for Meter Data Management

Today, Meter Data Management (MDM) systems enable utilities to not only understand overall gas consumption, but also determine the health of their assets and the state of their metering system as a whole. Increased data volume and complexity, as well as more involved data analysis, have created the demand for efficient storage, auditing and processing of large quantities of metering information.

Honeywell's Total Data Services (TDS) integrates our advanced, field-proven data acquisition and communication technologies into a state-of-the-art, Internet-based e-business and energy management platform. Leveraging the power of the Industrial Internet of Things (IIoT), TDS delivers interval meter data (load profile) and, optionally, device alarms and gas system pressure data directly to users' devices through a secure, customizable web portal.

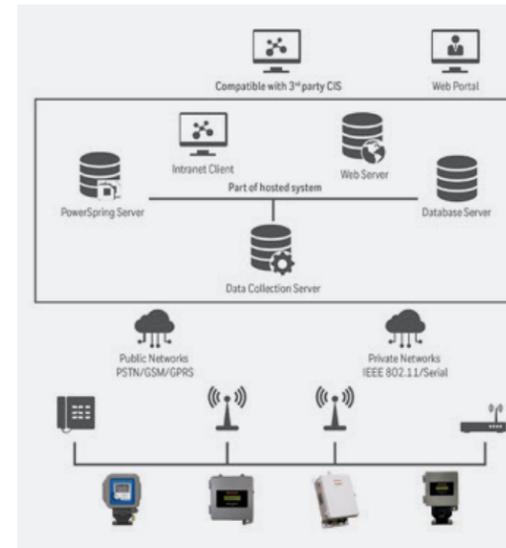
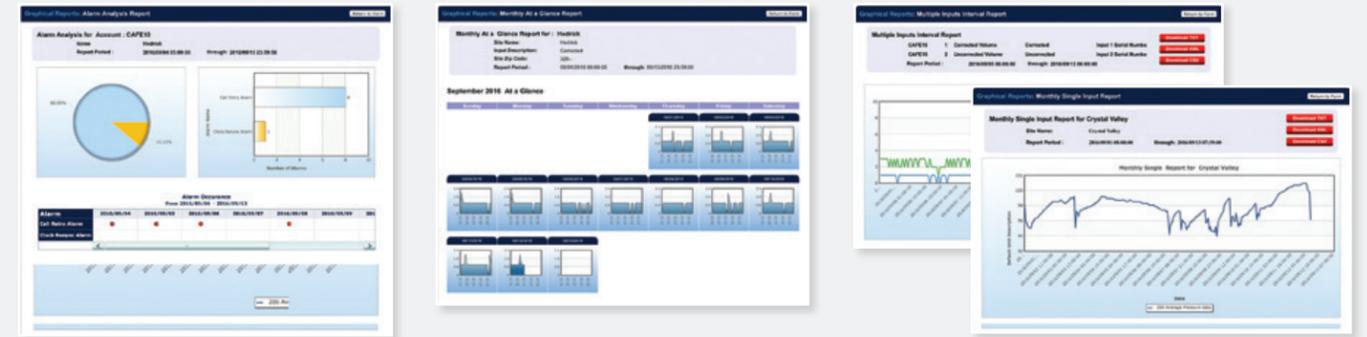
The Right Information—Where It's Required

A unique hosted, subscription-based Data Collection and Delivery Service (DCDS), TDS provides all the basic pulse and serial data acquisition necessities, 24x7x365 access to energy consumption and pressure information, the latest communications technologies, and timely notifications of field events. It is a cost-effective alternative to maintaining an in-house MDM capability for many smaller utility firms.

The TDS solution can be paired with Honeywell's PowerSpring data collection and software suite, which brings the power and flexibility of Microsoft's SQL Server for data management and remote monitoring. It provides the database needed to generate reports, billing data and alarm notifications through the TDS web portal.

Utilities and industrial/commercial customers without dedicated information technology (IT) infrastructure can now realize new levels of productivity and efficiency in their gas operations:

- Achieve near real-time reporting of interval meter data and exceptions
- Improve energy portfolio management, including more accurate nominations for marketers and traders
- Produce hourly, daily or monthly usage reports and compare them to previous periods
- Implement demand-side management and energy conservation initiatives
- Identify abnormal energy usage to improve operating efficiencies and reduce costs
- Enhance cost-based accounting allocation procedures by more accurately pricing products or services based on actual energy consumption.



TDS enables comprehensive gas consumption data to be collected electronically and used to generate various types of reports, which provide different snapshots to analyze customer gas usage. In addition, it helps users develop more effective energy curtailment strategies.

Thanks to this solution, users gain convenient access to meter data together with weather information, commodity data and industry news directly to their desktop through a secure, customized web page, email or FTP site.

Valuable Asset Information at Your Fingertips

Honeywell continues to enhance its TDS solution with new capabilities for gathering, processing and storing all types of meter data—helping utilities deal with rising data volumes and succeed in a changing industry.

The latest TDS features include:

Notification Control Center (NCC): An add-on module to the PowerSpring server, the NCC issues real-time email or SMS messages with notifications to keep personnel up-to-date on any alarms, events or changes to meters. These notifications can be configured based on a "watch list" for individual technicians or an entire maintenance/service group. Users can monitor alarms from multiple metering instruments—as well as all alarms configured in the instrument—with a single comprehensive view. There is also a dial-out capability for instruments configured in PowerSpring for fetching additional information for diagnostics.

The NCC module is typically used for asset maintenance and pressure monitoring of critical equipment.

Secure, Customizable Web Portal: TDS' enhanced web portal delivers interval meter data, device alarms and gas system pressure data directly to the user's desktop.

TDS provides electronic operational and device data that eliminates the need for outdated paper charts and manual readings. In addition, the backhaul of data into the system allows utility operators to relay and manage collected information, and make it available for secure viewing by marketing and end users.



Benefits to Energy Utilities

Honeywell's TDS is an "IIoT-Ready" solution providing small- to mid-size utilities and other customers with an MDM web service without the enterprise cost:

- Save time and money due to limited upfront and ongoing capital investments
- Reduce workforce and operating expenses
- Ensure reliable disaster recovery and redundant storage of key information in a world-class data center
- Focus technology budgets on competitive advantages rather than infrastructure
- Scale deployments of end points for maximum efficiency
- Utilize intuitive interface for greater ease-of-use
- Support analog telephone and cellular data loggers
- Employ serial connectivity to Mercury Instruments electronic correctors
- Implement standard smart metering alarms and system pressure monitoring
- Rely on a best-in-class security and IT infrastructure



Partner with a Recognized Expert

A growing number of utilities are seeking to engage and secure a partner to provide them with services in data collection and delivery. The goal is to simplify, automate, and have real-time access to remote field collected information. They need a proven solution that will help improve the process of data collection and subsequent dissemination.

Honeywell has decades of experience in the natural gas industry, meeting the diverse needs of customers worldwide. Part of our comprehensive Smart Gas Metering Solutions portfolio, TDS optimizes meter data management for smart metering. It provides customers with a powerful, versatile analytical tool and a trustworthy cash register for their gas operations.

How Honeywell Can Help You

Honeywell provides industry-leading gas control, measurement and analysis equipment to gas utilities and other users. Our company offers expertise along the entire gas supply chain, with reliable products and systems that enable users to exercise full control over their regulating and measuring needs.

Honeywell incorporates all leading technologies to provide complete solutions for the most demanding applications. This leads to reduced uncertainty, higher reliability, minimal risk, and lower maintenance costs.

For more information

To learn more about how Honeywell's Total Data Services (TDS), visit www.honeywellprocess.com or contact your Honeywell account manager.

Honeywell Process Solutions

Mercury Instruments LLC
1280 Kemper Meadow Drive
Cincinnati, OH 45240
Phone: +1 (855) 251-7065
www.honeywellprocess.com

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