

ENTIS INVENTORY SYSTEMS.

Powered by Experion. Connected by Experion Elevate.



Honeywell

EXPERIENCE MAKES THE DIFFERENCE

Pressure on margins, regulatory demands and skills shortages create a challenging environment for terminal operators. They need accurate data on hand to manage their liquid inventory and support decisions to improve performance and drive down costs.

Best-in-class tank management and custody transfer technology is indispensable to help reduce inventory uncertainties, increase operator efficiency and reduce product losses.

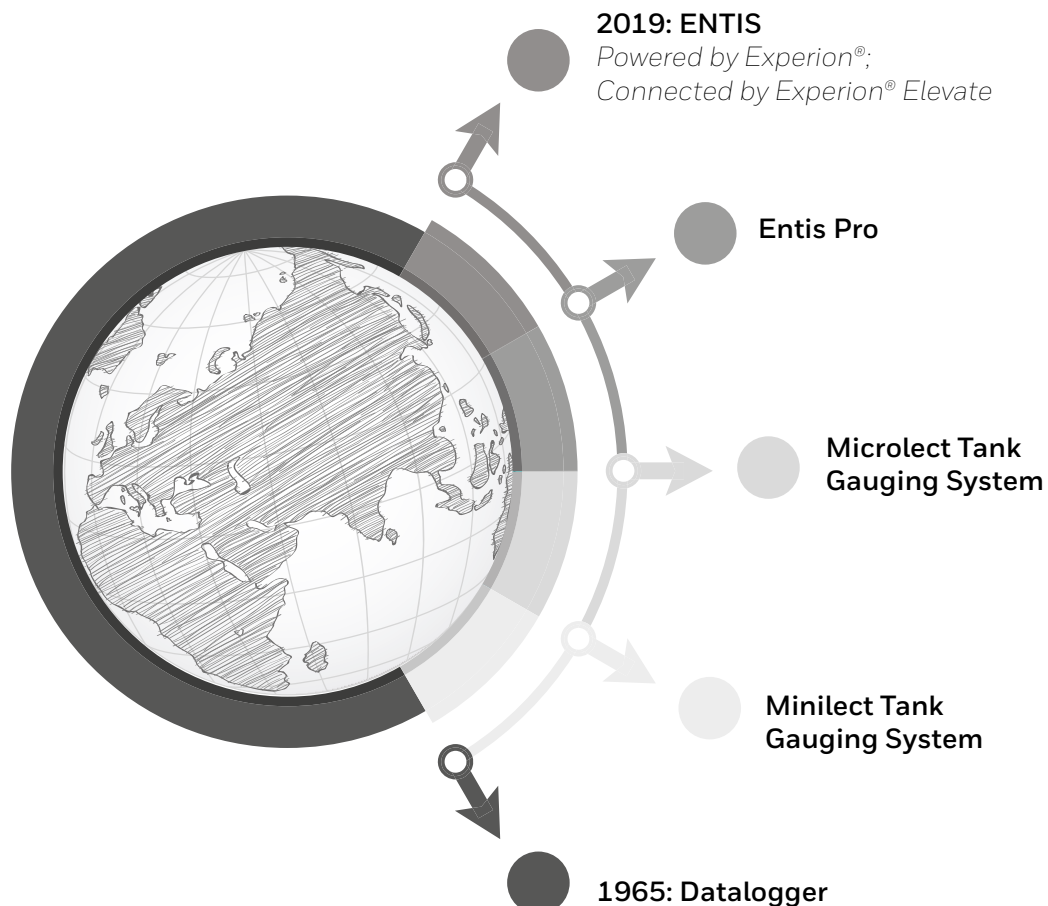
Our brand new ENTIS Inventory System is built on the proven Experion® platform to put you in control for a better operation. The Honeywell solution is supported by more than half a century's

experience in tank gauging and inventory management.

ENTIS is among the industry's most trusted solutions, with more than 2,000 installations worldwide. Powerful,

modular, and easy to use, ENTIS is suitable for all kinds of distribution and bulk terminals. It provides industry-leading accuracy, flexible options and advanced security features.

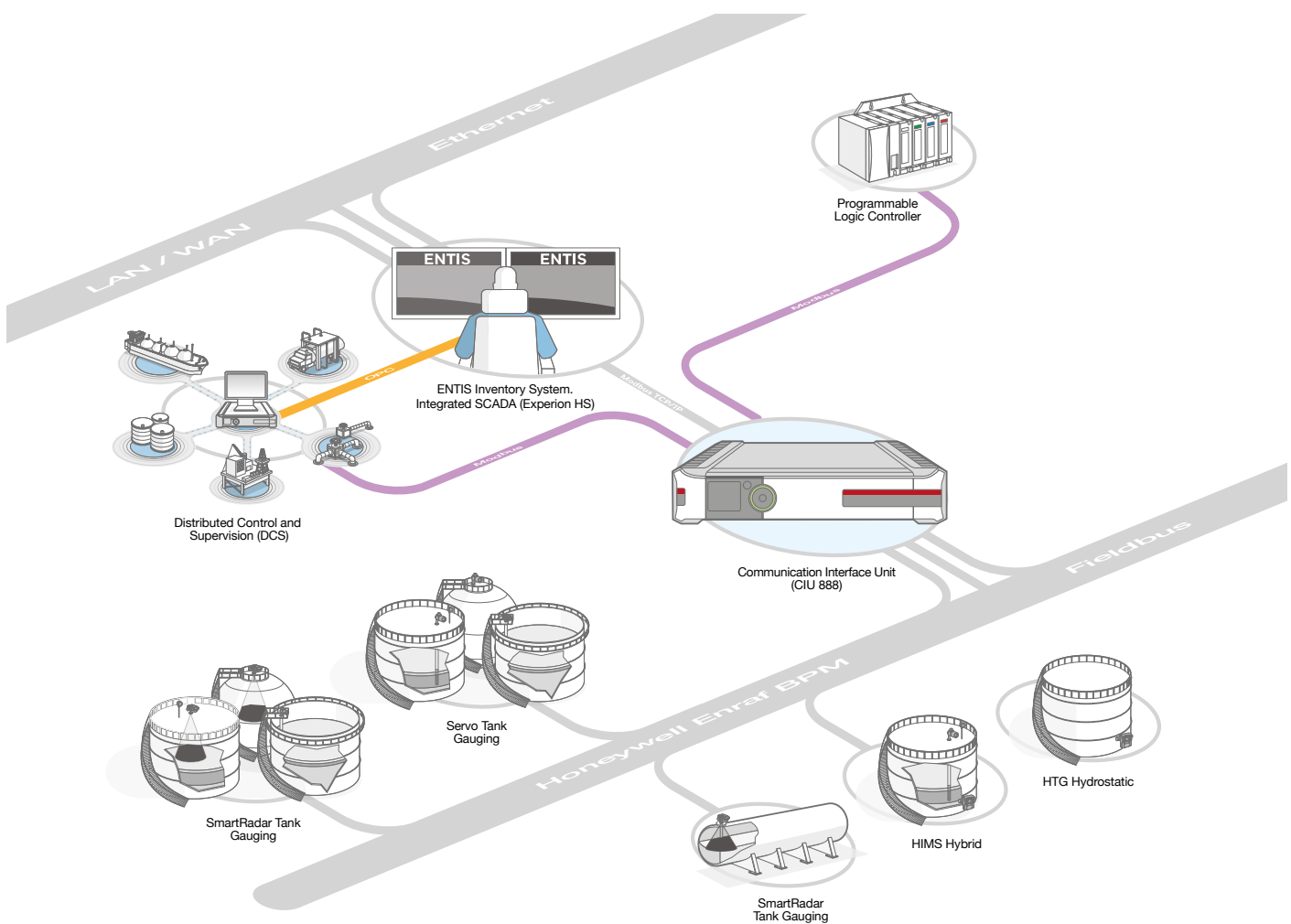
**MORE
THAN 2000
INSTALLATIONS
WORLDWIDE.**



FLEXIBLE ARCHITECTURE FOR STREAMLINED OPERATIONS

The ENTIS unique, flexible system architecture ensures faultless operation. ENTIS integrates with the dedicated Communication Interface Unit, CIU 888 via Modbus TCP/IP. CIU 888 retrieves and processes data from field devices and systems, constantly scanning, calculating and monitoring.

Reliable data is continuously provided to a wide range of applications supporting operators with dedicated tasks in ENTIS. This allows them to operate the tank farm safely and efficiently.



INVENTORY MANAGEMENT THAT WORKS FOR YOU

Operating an oil storage terminal requires a constant focus on safety and efficiency. Honeywell's ENTIS system provides accurate and secure inventory data at all times, allowing overfill, leak detection and alarm to prevent potential disasters, and save people as well as the environment. Also, it allows users to reduce costs, increase efficiency and improve profits.

A FLEXIBLE ANSWER

Based on a modular approach, ENTIS provides a wide range of capabilities, customizable displays and report templates to fit operators' needs. In addition to the broad set of standard tools, reports and views included, you can request bespoke functions that can be developed to your specifications. Providing an efficient solution for a single tank or up to 400 tanks on a tank farm, ENTIS offers a single solution for multiple locations and a wide variety of gauges and interfaces. Easily accommodating expansions or changes to the operation, it provides a flexible answer to deliver performance and value over the entire life cycle.

AN INTEGRATED APPROACH

Honeywell Enraf's tank inventory systems use open standards for better integration. Open connectivity enables seamless integration of existing field equipment, while standardized host interfaces can link to your control systems and business domain packages for advanced resource planning and asset management.

DESIGNED FOR HUMANS

Technology should make operations easier. Intuitive and easy-to-use right out of the box, ENTIS is a web-based solution that employs a logical, self-explanatory interface.

Clear color-coded tank displays immediately inform operators whether tanks are being filled or emptied; graphical displays provide quick overviews of tank status; and high

resolution numerical read-outs provide accurate real-time data. Simple to configure, and with several graphical interfaces available, you can even customize displays for individual tanks.

ENTIS offers a simple but powerful approach to reduce installation costs and cut your time spent on training, while boosting efficiency and safety.

PROTECTING YOUR PEOPLE

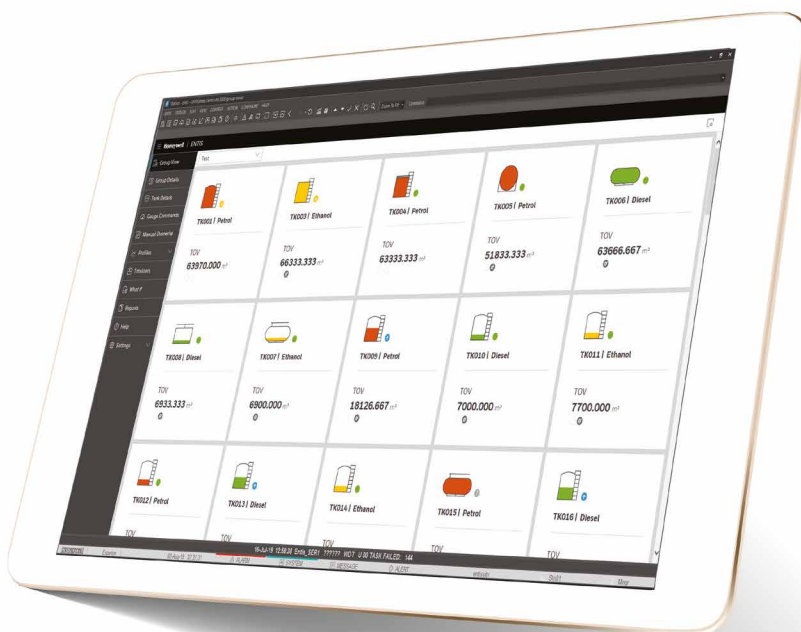
Use our terminal solutions to keep the operation safe, protecting personnel, assets and the environment. Accurate and secure inventory data avoids overfills, facilitates leak detection and prevents disasters.

ENTIS includes a reliable, proven alarm system, allowing users to program set points and create their own custom alarms.

Alarm suppression also prevents operators being overwhelmed by alarm avalanches caused by a single failure. A leak detection mode monitors tanks during inactive periods, with temperature-corrected volume measurement for accurate readings, increasing plant safety and reducing operating costs caused by false alarms.

KEEPING YOU COMPLIANT

ENTIS visualizes API and ASTM compliant inventory data that is measured and calculated from CIU. Weights and Measures-certified applications for custody transfer, accounting and duties come with a comprehensive set of reporting functions to provide data in the right format and frequency. ENTIS keeps records straight and cuts the burden of compliance. Plus, ENTIS is compliant with Cyber Security standards.



UNIQUE INTEGRATED CONCEPT

ENTIS simultaneously interfaces with a wide range of commonly used field protocols. The system provides data from across your terminal, or even different sites throughout the world. All data is effortlessly accessible at the click of a mouse.



ENTIS GIVES YOU THE DATA YOU NEED:

- Detailed: Data presented according to your needs and site policy.
- Available: In real-time from across the terminal and effortlessly accessible.
- Transparent: Secure and instantly verifiable for auditors and others.
- Accurate: Precise data for efficient and confident planning and better use of resources.

ENDLESSLY ADAPTABLE

ENTIS offers an extensive set of functionalities to meet the day-to-day needs of Terminal Inventory Operations. A huge variety of different screens provide dynamic tank level, tabular details, tank icons, density profiling and temperature profiling for powerful trending, reports and tank calculators. Vital information is always just one click away.

WHY HONEYWELL ENRAF

A Trusted Brand: Honeywell Enraf combines more than 60 years' experience in terminal operations with the global resources of Honeywell Process Solutions.

Domain Knowledge: A niche focus and unrivalled depth of knowledge is demonstrated in more than 2,000 installations worldwide.

Market Leading Technology: Our tank management and custody transfer solutions are best in class and certified by the world's most recognized authorities, such as NMI.

Working Together: We have partnerships with a wide range of best-in-class product and service suppliers to ensure you always get the perfect solution.

Local Support: 2,700 certified project managers, engineers and designers means we always have experts near you to help.

End-to-end Solutions: Use us as your single source for terminal solutions to draw on a comprehensive and integrated portfolio of products, systems and services that add value.



TAKE YOUR TERMINAL TO THE NEXT LEVEL

ENTIS systems offer proven, demonstrable benefits for terminal management to promote a safer, more profitable operation.

INCREASE OPERATOR EFFICIENCY

Developed to present the real-time information operators need clearly and orderly, ENTIS packages enable quicker decisions and troubleshooting, while reducing the need for manual inputs through integrated, automated processes

OPTIMIZE YOUR PROCESS

Alarms, acknowledgments and all tank information are recorded and stored for future review and traceability. With historic trending, operators can check tank usage quickly and easily to increase efficiency.

REDUCE ADMINISTRATION

Powerful, automated and customizable reports for regulators, customers and internal use cut the burden of paper-work and lead to a more informed workforce.

LOWER INSTALLATION COSTS

Designed for open connectivity, easy configuration and ease of use, ENTIS inventory management systems are quick to install, simple to maintain and fast to adapt to any change that might occur in the process.

ZERO IN ON ACCURACY

With precise, reliable data delivered in the required formats, terminals can reduce inventory uncertainty and maximize capacity for a more profitable operation.

BRING THE PLANT TOGETHER

Windows networking facilities allow users to integrate ENTIS into the plant's system, with local and wide-area networking. Even wireless and fiber optic communications are seamlessly integrated. Data can be shared securely across the plant – or across the globe.

ROBUST SAFETY AND SECURITY

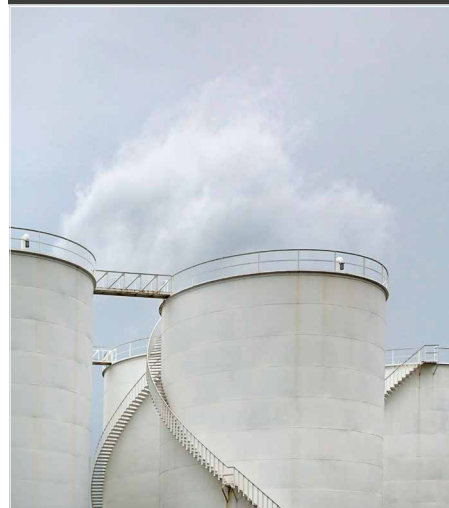
ENTIS ensures robust safety and security in compliance with the following requirements: Cyber Secured, Tamper proof Audit Trails, Defense-in-depth security, Windows Integrated Security, Integration with Honeywell safety manager and Digital Video manager.

WE KNOW TERMINALS

Safe, accurate and efficient: for more than six decades and up to the present day Honeywell Enraf has proved the single source for terminal solutions. Our integrated, scalable offerings help terminal operators stay competitive, compliant and safe.

Combining innovative solutions, field-proven products, and unrivalled experience, Honeywell Enraf solutions meet the needs of all types of bulk terminals. For your refinery off-sites, biofuel storage and distribution, petrochemical storage and loading facilities, or marine, rail and truck loading terminals, we will help you achieve your objectives.

Whether it's a Greenfield project or minor update, you can benefit from our global expertise, local support and a flexible approach to increase safety, prioritize accuracy, boost profits, and keep compliant.



HONEYWELL'S FULLY INTEGRATED TERMINAL OPERATIONS SERVICE PLATFORM

ENTIS is part of Terminal IQ, a fully integrated software service platform that addresses the challenges terminal operators are facing today.

The Honeywell solution provides an integrated approach to facilitate, monitor, and control the storage and distribution of Oil and Gas products. The platform enables guaranteed outcomes for safe, reliable, and profitable small and medium terminal operations. Terminal IQ enables operators to manage Tank Inventory, Loading, and Terminal Automation workflows.

The Honeywell platform ensures superior users experience through seamless data management. Plus, it facilitates easy adoption, thanks to a user-friendly subscription model.

For More Information

To learn more about Honeywell Enraf's ENTIS Inventory Systems, visit www.honeywellenraf.com or contact your Honeywell Enraf account manager.

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