



Entis Pro Inventory Systems
Global Experience. Locally Applied.

Pressure on margins, regulatory demands and skills shortages create a challenging environment for terminal operators.

Operators need accurate data on hand they can rely on 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.

A worldwide installed base know we listen and understand their concerns. That's why terminal operators count on us to help achieve their goals.

Global Experience.
Locally Applied.

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, scaleable 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.

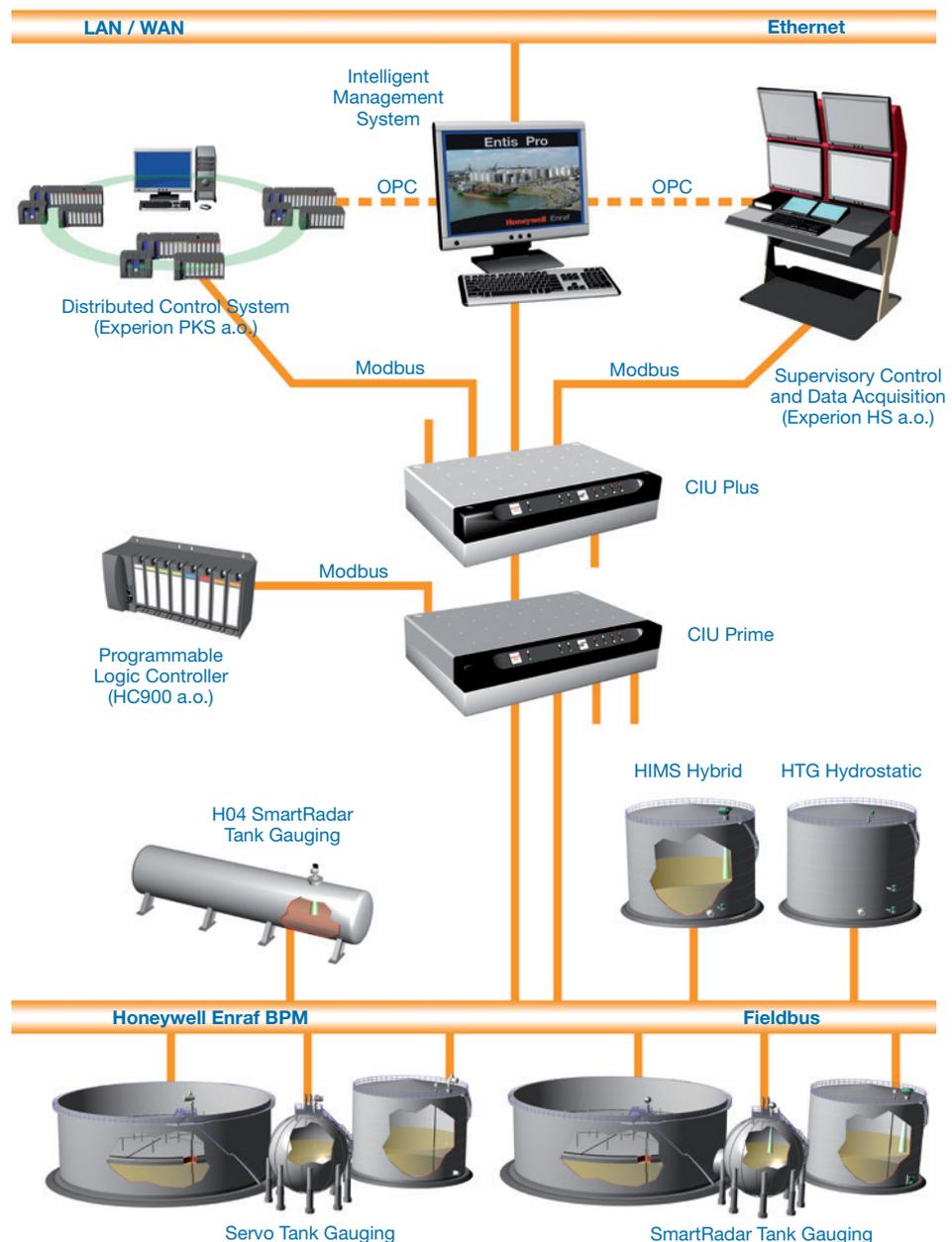
Whether it's a Greenfield project or minor update, you can benefit from our global expertise, local support and a flexible approach to increase safety, prioritize accuracy, boost profits, and keep compliant.

Experience Makes the Difference

Our inventory management solutions put you in control for a better operation.

Supported by more than half a century's experience in tank gauging and inventory management, the Entis Pro inventory system is among the industry's most trusted, with more than 2,000 installations of Entis worldwide.

Powerful, modular, and easy-to-use, Entis Pro is suitable for all kinds of distribution and bulk terminals. It gives your terminal industry-leading accuracy, flexible options and advanced safety features. Integrated with your DCS, SCADA, other systems and field devices, it holds the key to a leaner, smoother operation.



Inventory Management that Works for You

A Flexible Answer

Entis Pro features a modular approach, 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 developed to your specifications.

Providing an efficient solution for a single tank or up to 400 tanks on a tank farm, Entis Pro systems offer 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 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. Entis Pro packages also enable simple and reliable SCADA integration.

Each level of the three-tiered, flexible architecture provides an open interface to communicate with other systems. At the top level, Entis Pro features open database connectivity (ODBC) and OPC (OLE for Process Control) connectivity to third-party software.

By leveraging existing equipment and systems Entis Pro delivers better results that protect your investments.

Designed for Humans

Technology should make operations easier. Intuitive and easy-to-use right out of the box, Entis Pro is a Windows-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 Pro provides 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 Pro packages include 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, meanwhile, monitors tanks during inactive periods, with temperature-corrected volume measurement for accurate readings, increasing plant safety and reducing operating costs caused by false alarms.

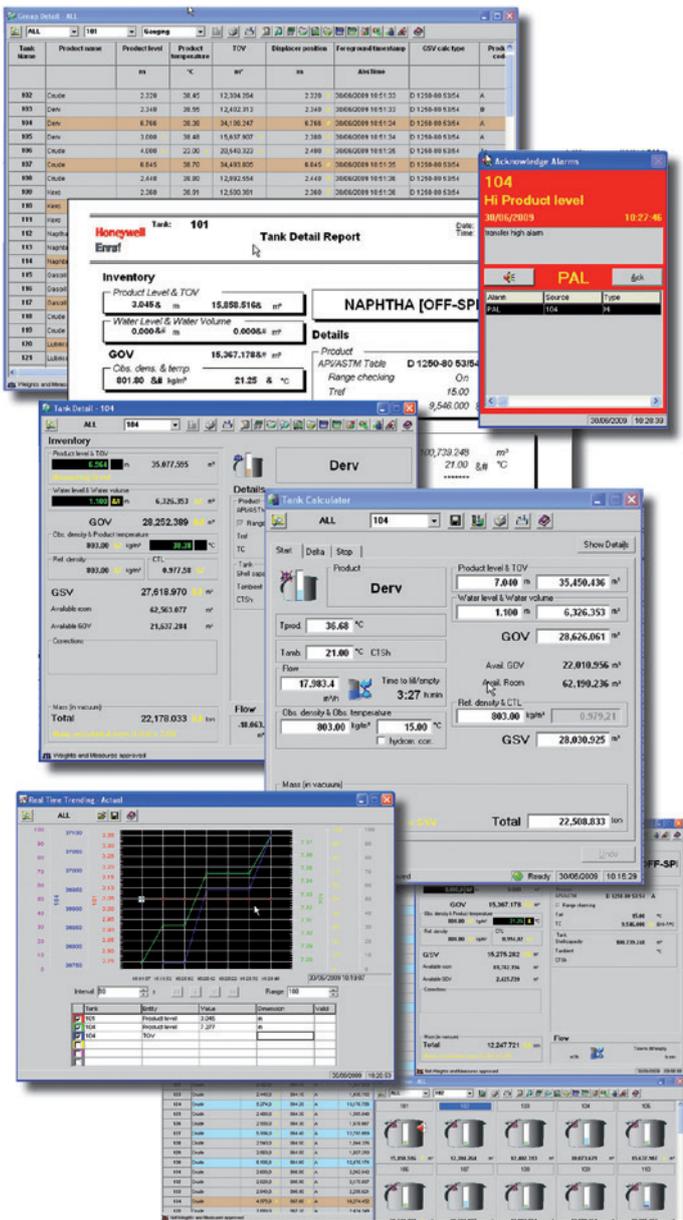
Keeping You Compliant

For accurate data that operators and customers can rely on, all inventory calculations from Entis Pro packages are fully API and ASTM compliant. 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 Pro keeps records straight and cuts the burden of compliance.

Three Layers of Integration

Entis Pro's unique, three-layered flexible system architecture ensures faultless operation. Two dedicated Communication Interface Units – CIU Prime and CIU Plus – retrieve and process data from a variety of field devices and systems for scanning, calculating and monitoring. They ensure smooth multi-tasking in Entis Pro at the top level, and continuous availability of real time, reliable information.

With smart, simultaneous interfacing for the full range of commonly used field protocols, the three-tiered system ensures data from across your terminal, or even different sites across the world, is effortlessly accessible at the click of a mouse. Expansions, upgrades and modifications can be quickly accommodated without disrupting the system.



Entis Pro Gives You the Data You Need:

Detailed: Data presented according to your needs and site policy.

Available: In real-time from across the terminal or across the world and effortlessly accessible.

Transparent: Secure and instantly verifiable for auditors and others.

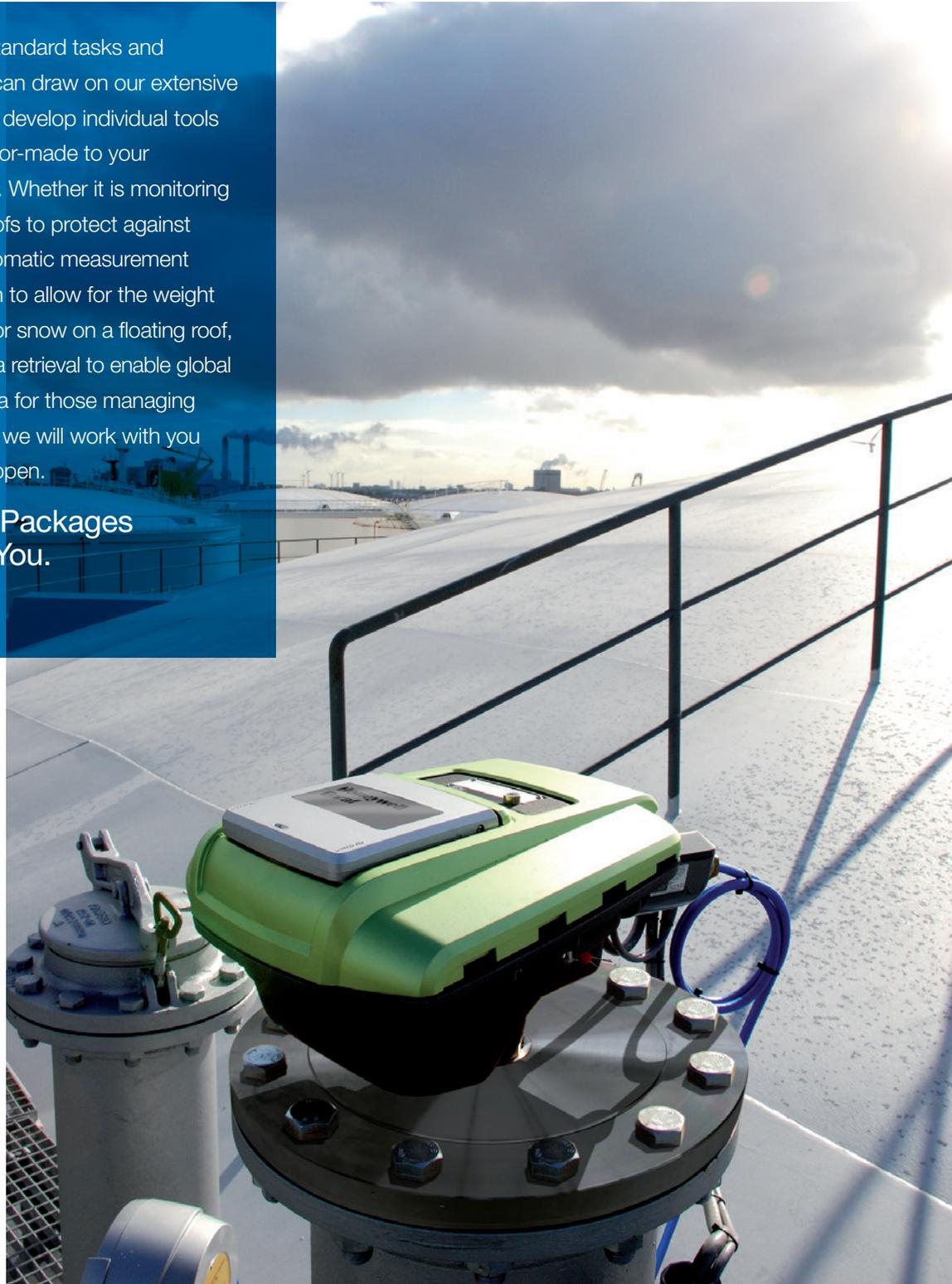
Accurate: Precise data for efficient and confident planning and better use of resources.

Infinitely Adaptable

Entis Pro offers an extensive set of tasks and options as standard. A huge variety of different screens provide bar graphs, tabular details, tank icons and a range of optional modules for your trending, reports and tank calculators. Vital information is never more than one click away.

Beyond the standard tasks and options, you can draw on our extensive experience to develop individual tools and tasks, tailor-made to your specifications. Whether it is monitoring for floating roofs to protect against jamming, automatic measurement compensation to allow for the weight of heavy rain or snow on a floating roof, or remote data retrieval to enable global access to data for those managing multiple sites, we will work with you to make it happen.

**Entis Pro Packages
Work for You.**



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 Pro packages mean quicker decisions and trouble-shooting, 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 Pro inventory management systems are quick to install, simple to maintain and fast to adapt to changes in the process.

Zero in on Accuracy

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

Bring the Plant Together

Windows networking facilities allow users to integrate Entis Pro into the plant's network, with local and wide-area networking. Even wireless and fibre optic communication are seamlessly integrated. Data can be shared securely across the plant – or across the globe.

Protect Your Investment

Opt for hot standby and redundancy support for critical applications to provide continuous and reliable data to the management system, and protection for data in the event of a network failure.

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.

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

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, PTB, GUM and OIML.

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.

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.

For More Information

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

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