

MARINE COMMUNICATION INTERFACE UNIT

High Performance. Fast Commissioning. Business Friendly.

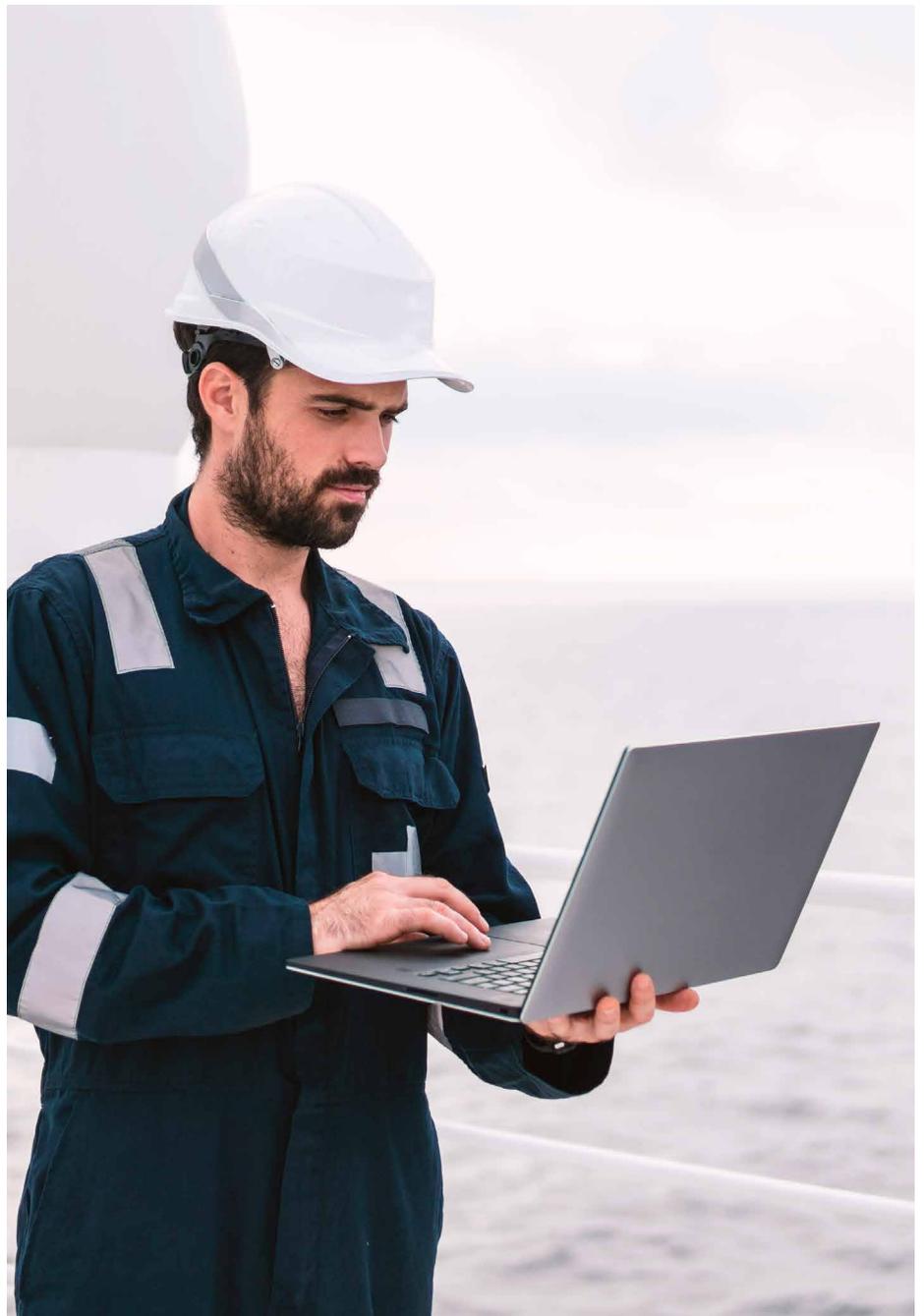
Honeywell

FOR A SAFE, SECURE, AND PROFITABLE OPERATION

Many of today's shipyards, ship operators, technicians and ship owners rely heavily on automatic tank gauging systems. These businesses and operators need reliable and stable performance coupled with smooth user experience and sustainable maintenance benefits.

Honeywell's Marine Communication Interface Unit (MCIU) is a centralized communication interface that compiles and processes all the ship's tank critical measurement parameters and feeds them to the cargo management system. The system functions on a truly digital platform capable of easy instrument integration coupled with a "plug and play" sensor exchange. The MCIU is independent from the ship system and immune to network issues.

Honeywell's MCIU provides savings of at least one man-day during system integration of the tank gauging. This will speed up the commissioning and startup activities at the shipyard, thereby increasing availability of precious man hours for meeting delivery deadlines.



YOUR NEEDS, OUR SOLUTIONS

Honeywell understands the challenges encountered by today's seafarers, ship builders, fleet owners and vessel operators. Increasingly, companies involved in marine and offshore operations are faced with an uncertain economy, rising fuel costs, unforeseeable safety and security hazards, and a growing list of mandatory regulations and laws.

Crews are smaller, rotate frequently, and may be unfamiliar with high-tech equipment. Crews are pressured by long voyages at sea, characterized by harsh weather and calls at various ports, that must be as brief as possible.

On shipyards, the tank gauging system is one of the key components of any tanker ship that is being built, and installers and commissioning engineers need to save time and avoid costly delays. In the port, the ship load masters need to

have accurate values during loading and unloading, so they can reduce the danger of overfill. While at sea, the repairmen must be able to easily exchange components that break or service malfunctioning components on board – saving valuable efforts, time, and money.

This puts pressure on shipyards and ship operators to select powerful, easy and integrated systems that are tailored to their specific needs.



WHAT IS HONEYWELL MCIU?

The Honeywell Marine Communication Interface Unit (MCIU) is a safe and reliable gateway between a series of purpose-driven tank gauging instruments and the on-board tank management system.

MCIU collects data across a variety of instrument platforms, runs necessary computations on the data and sends it to Honeywell's user-friendly CargoBoss tank gauging software and/or to the compatible ship board system.

Measurement parameters include level, volume, pressure, temperature, inert gas pressure, high level and overflow alarms for liquid cargo, ballast and service tanks. With MCIU, all measured and calculated data is continuously available in real time for safe and efficient operations.



How Does It Work?

The Honeywell MCIU features a well-established and standardized Honeywell PLC technology platform – that has already delivered excellent results in various demanding functional environments.

STANDARD OFFERING

- Single-source, integrated system measuring level, pressure, temperature, and inert gas pressure for ballast and cargo tanks
- Separate system for overflow protection
- Scalable architecture to suit different sizes of ships
- Truly digital platform
- PLC with lowest power consumption per module

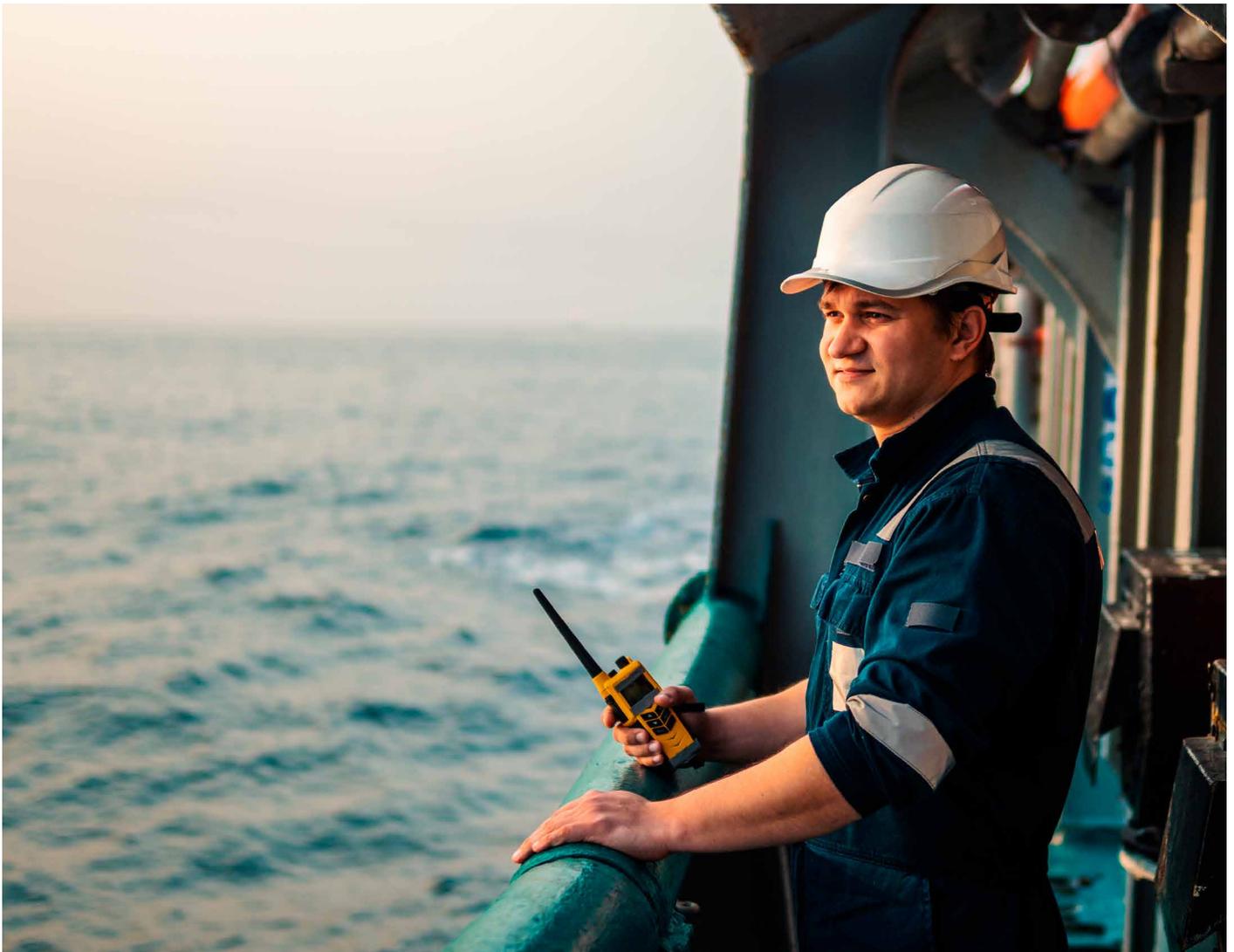
WHAT PROBLEMS DOES IT SOLVE?

Honeywell Marine MCIU enables seafarers, ship builders, fleet owners, and vessel operators to deliver a more profitable, safer operation by:

- Speeding up the commissioning and startup activities at the shipyard.
- Maximizing uptime and improving safety and efficiency.
- Lowering the cost of ownership.
- Ensuring reliable and stable system performance.
- Saving maintenance efforts, time and money.

The MCIU has been carefully designed to seamlessly integrate with various types of active and popular marine-certified Honeywell instruments readily available in the market.

We maintain neutrality of our offering regardless of the type of vessel or tank gauging system.



HONEYWELL MARINE

Honeywell Marine offers comprehensive and reliable ship tank level-gauging and safety systems as well as high-level services that meet all shipyards' and ship owners' needs, regardless of their size. All services are performed in compliance with current and upcoming regulations.

SHIP TANK LEVEL-GAUGING SYSTEMS

Honeywell's products combine electronics and sturdy components, which leads to extremely reliable solutions that can be used for ballast, fresh water and other tanks (such as hydrocarbon products, chemical and oil tanks), as well as for draft measurement. Honeywell's excellent reputation led to it becoming the official supplier of the Queen Mary II for all level-gauging applications.

ONE-STOP-SHOP MARINE SERVICING

Today, Honeywell is a one-stop-shop company encompassing the expertise of several reference companies:

- Honeywell Marine for tank gauging and safety.
- Honeywell Tanksystem for portable level gauging and sampling portable equipment.

- Eltek Fire & Safety for fire detection systems.
- Honeywell Process Solutions for full integrated automation solutions.
- BW Technologies for portable gas-detection systems.

Our main concern is to bring more value and efficiency to our customers, through consistent quality from design, production and installation to commissioning service on-site and after-sales service.





FEATURES AND BENEFITS

COMMENDABLE USER EXPERIENCE

- Instrument Configuration and easy troubleshooting directly from the control room.
- Rich visualization on high-quality HMI screens varying from 4" to 12"
- Efficient wiring with the use of removable field terminals for easier installation

COMMUNICATION FRIENDLY

- Multiple communication capabilities through Ethernet, Serial, and Modbus protocols.
- Optional 3G/4G GSM modem for communication via port-based mobile network.
- Expansion capability for integrating Honeywell Remote Connectivity Service.

MODULAR DESIGN

- Expansion-friendly architecture suited for varied types of tanker ships and capacity.
- Customization to a wide range of applications and integration with other dependent systems.



WHY HONEYWELL?

With 30 years of marine industry expertise, Honeywell Marine has strengthened its position as a complete tank gauging solutions provider with a wide portfolio of technologies, backed by the flexibility to adapt and support changing market realities and industry regulations.

We challenge ourselves to bring more value and efficiency to our customers through consistent quality discipline towards design, production, delivery, on site commissioning and after-sales services.

For More Information

To learn more about Honeywell's marine solutions, email hpsmarketing@honeywell.com, visit www.honeywellmarine.com or contact your local Honeywell account manager.

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FUTURE
IS
WHAT
WE
MAKE IT

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