HEINZMANN®

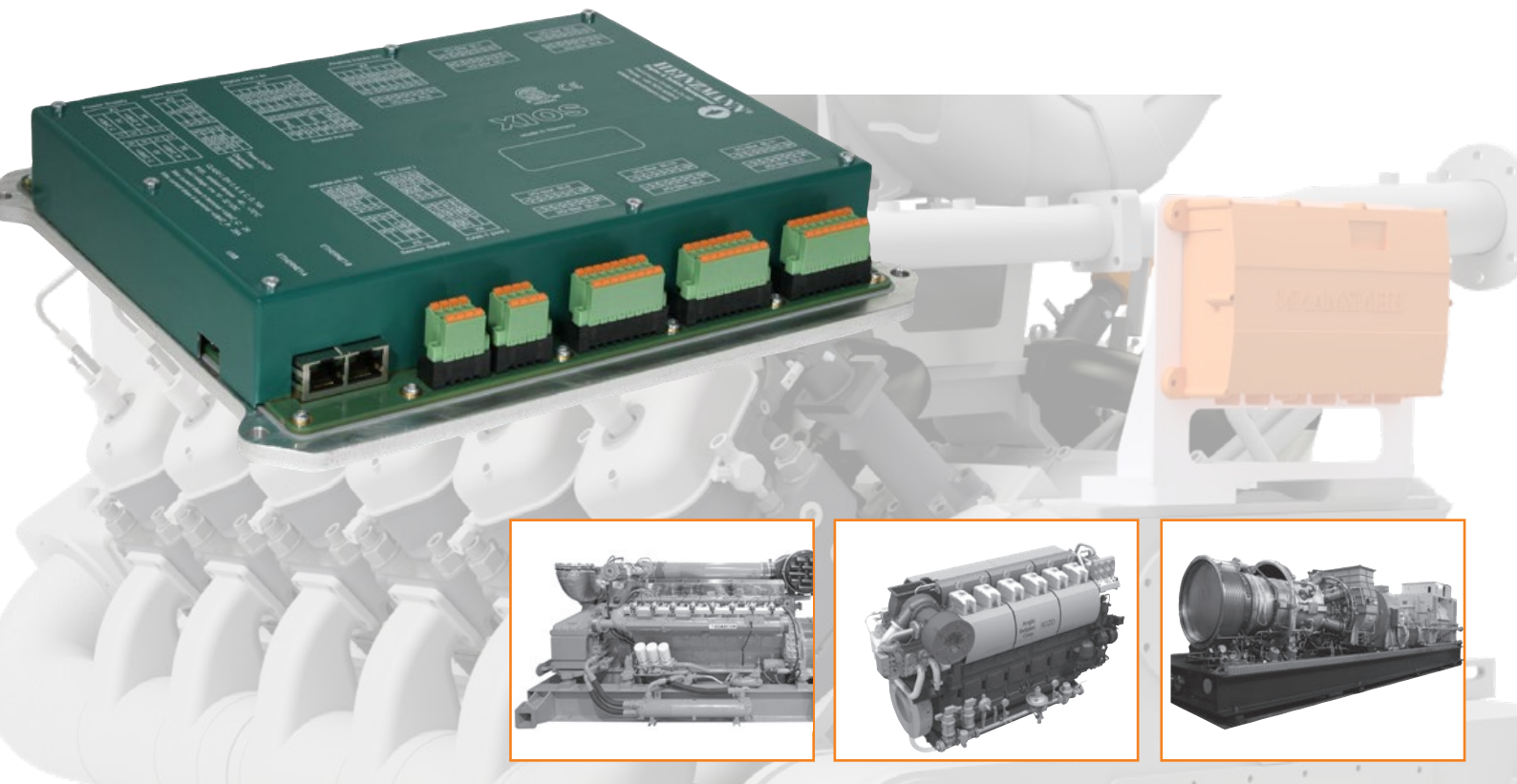# *XIOS*

Universal Control for Diesel, Gas, Dual-Fuel Engines & Turbines

▸ Modular

▸ Advanced control technology

▸ Multifunctional

▸ Variety and high number of I/Os

▸ Customised configuration

▸ Scalable system

▸ Flexible & cost-effective

XIOS

Application-specific configurable modular control & monitoring unit

Modular

With Universal Control XIOS UC HEINZMANN presents an entirely new generation of controller. Unlike conventional controllers, the modular XIOS UC package offers a previously unmatched breadth of functions and features.

Advanced Control Technology

To relieve the CPU, a logic chip (FPGA) developed by HEINZMANN takes control of all I/O functionality, leaving more computing power for PLC functions or processor-intensive regulation tasks.

Multifunctional

XIOS UC controls and monitors manifold different types of engines, such as diesel, gas and dual-fuel engines plus hydraulic generators and turbines.

This multifunctional control unit is also applicable to the field of alarms and monitoring, where, in addition to data from the engine and associated areas, it can record all the information generated by mobile machinery and plants. This means that XIOS UC is also successfully used for monitoring seagoing vessels, for example.

XIOS UC an also be used as an I/O extension to any kind of controller, such as for co-generation plants or to expand the I/O facilities of construction equipment.

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More and more diversified I/Os

Most engine controllers are unable to handle the large numbers of inputs and outputs required by modern comprehensive control systems, but the Universal Control XIOS UC has a high number of I/Os and can handle the most diverse requirements. Moreover, these I/O modules are individually software configurable and extremely compact.

Custom configuration

The I/O modules can also be extremely easily and straightforwardly combined. Our customers select the appropriate I/O hardware modules for their specific requirements, naturally with the support of HEINZMANN's team of experts.

Once the type and number of hardware I/O modules has been decided, the actual configuration is carried out by software, either using HEINZMANN's own service tool DcDesk or with CoDeSys. The XIOS UC hardware can also be configured under MATLAB®.

Scalable system

In case all I/Os on a XIOS unit are maxed out, for example when monitoring a large number of cylinders, two XIOS UC devices can be operated in master/slave mode to control even larger systems.

Flexible

In addition to modern communication interfaces, the main board provides additional slots for a variety of I/O expansion modules, which are added in as and when the system requires.

The number and type of such modules can be determined by the user, opening up a wide range of functionalities that underline the flexibility of XIOS UC.

Cost-effective

Advanced XIOS UC control technology allows you to use a cheaper processor to reduce your costs. This means that our customers get the maximum possible controller scope and top quality at a much more attractive price.

PLC functions

XIOS UC enables customers to develop their own functions on the basis of CoDeSys (IEC 61131-3) or MATLAB®. The proven and reliable real-time operating system (RTOS) guarantees stable performance.

For technical information please refer to the XIOS UC Data Sheet.

The document XIOS UC Order Information assists you to find your specific configuration.

Main Features

- **Speed control**
- **Alarms & monitoring**
- **Measuring cylinder pressure**
- **Turbine control**
- **I/O extension**
- **Multi-actuator control**
- **Data logging**
- **Integrated web servers**

Configuration & Visualisation Tool DcDesk

HEINZMANN DcDesk can be used to adjust and view operational data. It offers a number of numerical and graphical features required for testing, configuration, commissioning and servicing. Extensive functionality for recording of operational data enables logging of specific service conditions for their further analysis, processing and reporting.

HEINZMANN's Configuration Suite is a new donglefree service tool based on a graphical user interface. It offers access to digital HEINZMANN control units and allows an easy depiction and use of complex contexts.

Applications

- **Diesel engines**
- **Gas engines**
- **Dual-fuel engines**
- **Turbines**
- **Construction machinery**
- **Industrial plant**
- **Ships**
- **Locomotives**

HEINZMANN Group

Quality & Precision since 1897

The Group started in 1897 with Heinzmann GmbH & Co. KG, and now includes HEINZMANN UK, HEINZMANN China, HEINZMANN Korea, HEINZMANN India, HEINZMANN Australia, HEINZMANN AUTOMATION, REGULATEURS EUROPA, and CPK Automotive as member companies.

The HEINZMANN Group operates numerous global subsidiaries, including eight production sites and an international distributor network.

Our product portfolio comprises engine management system solutions, as well as exhaust gas aftertreatment solutions, for industrial combustion engines and turbines. It also encompasses automation systems, primarily for the shipping industry.

⊙ *Head office*   **●** *Subsidiaries*   **●** *Subsidiaries with production facilities*   **●** *Distributors and dealers*

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