

For Diesel, Gas, Dual-Fuel & Turbines

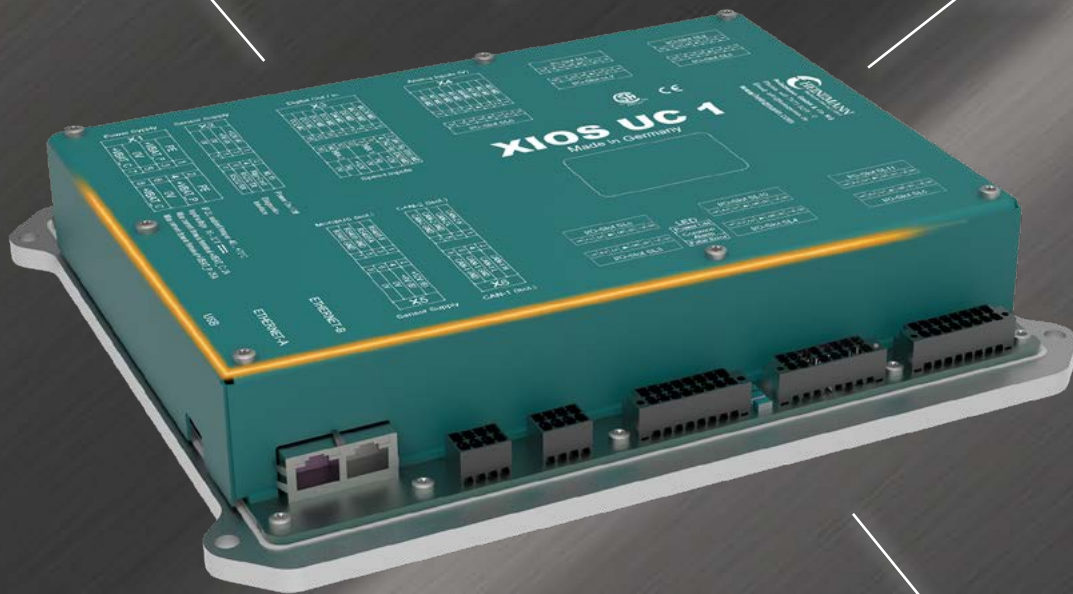
# XIOS

## Modular Universal Controller

Advanced control  
technology

Flexible

Multifunctional



Variety and  
high number of I/Os

Customised  
configuration

Scalable system



# XIOS

## Application-specific configurable modular control & monitoring unit

### MODULAR

Universal Controller XIOS UC presents the latest generation of HEINZMANN controllers. Unlike conventional controllers, the modular XIOS package offers a wide range 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 control tasks.

### MULTIFUNCTIONAL

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

This multifunctional control unit is also applicable for protection, monitoring and data logging.

XIOS can also be used as an I/O extension, e. g. for cogeneration plants or for integration of SCR control systems.



### APPLICATIONS

- ▶ Diesel engines
- ▶ Gas engines
- ▶ Dual-fuel engines
- ▶ Turbines
- ▶ SCR systems
- ▶ Ships
- ▶ Locomotives

### FEATURES

- ▶ Speed control
- ▶ Protection & monitoring
- ▶ Turbine control
- ▶ Generator control
- ▶ I/O extension
- ▶ Multi-actuator control
- ▶ Data logging

### 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 Controller XIOS 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 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 devices can be operated in master/slave mode to control even larger systems.

A HMI, communicating with XIOS, can additionally be implemented via one of the Ethernet ports.

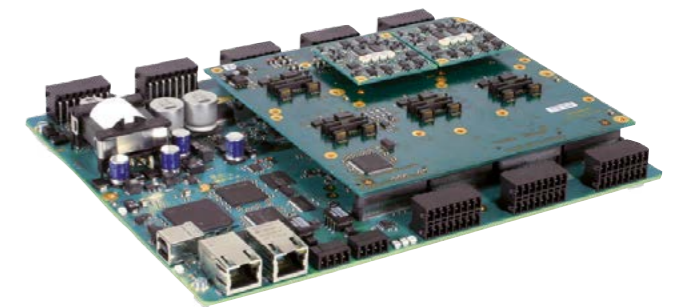
### FLEXIBLE

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.

### PLC FUNCTIONS

XIOS 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 data sheet.

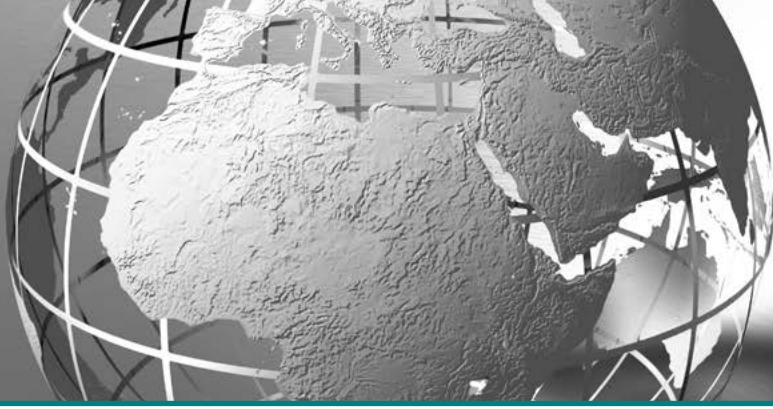
### CONFIGURATION & VISUALISATION TOOL DCDESK

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 dongle-free 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.



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## HEINZMANN GROUP – THINKING IN DRIVE AND CONTROL

HEINZMANN is a globally active family business founded in 1897 with its headquarters in Schönau (Germany), in the Black Forest.

Today, in the field of engine management HEINZMANN is one of the leading suppliers of components and systems for industrial combustion engines, generators and turbines. As a specialist and development partner, HEINZMANN is committed to developing exactly the right solution for increasing efficiency and reducing emissions.

In the Electric Drives division, HEINZMANN also demonstrates innovative strength and development expertise in engine technologies of the future. The company has established itself as a reliable partner and system provider for electric drive systems.

Our collaborative interaction with more than 40 globally active subsidiaries and sales companies characterizes the spirit within the HEINZMANN group of companies and makes us a reliable partner.

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