XIOS UC 1
Universal Control

Control
Alarm & Monitoring
I/O Extension

Diesel Engines
Gas Engines
Dual Fuel Engines
Turbines

✓ Modular
✓ Advanced control technology
✓ Multifunctional
✓ Variety and high number of I/Os
✓ Customised configuration
✓ Scalable system
✓ Flexible & cost-effective
✓ PLC functions

Engine & Turbine Management
XIOS UC 1 – UNIVERSAL CONTROL

Application-specific configurable modular control and monitoring unit

Modular

With XIOS UC 1 HEINZMANN presents an entirely new generation of controller. Unlike conventional controllers, the modular XIOS UC 1 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 1 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 1 is also successfully used for monitoring seagoing vessels, for example.

XIOS UC 1 can 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.

XIOS UC 1 Main Features

✓ Speed control
✓ Alarms & monitoring
✓ Measuring cylinder pressure
✓ Turbine 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 Control XIOS UC 1 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 1 hardware can also be configured under MATLAB™.

Scalable system
If you should ever find that all the I/Os on a XIOS UC 1 unit are maxed out, for example when monitoring a large number of cylinders, even that is not a problem: two XIOS UC 1 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 1.

APPLICATIONS
✓ Diesel engines
✓ Gas engines
✓ Dual fuel engines
✓ Turbines
✓ Construction machinery
✓ Industrial plant
✓ Ships
✓ Locomotives

Cost-effective
Advanced XIOS UC 1 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 1 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 1 Data Sheet.
The document XIOS UC 1 Order Information assists you to find your specific configuration.

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The HEINZMANN Group
Quality & Precision since 1897

The Group started 1897 with Heinzmann GmbH & Co. KG, and now includes REGULATEURS EUROPA, HEINZMANN DATA PROCESS and CPK Automotive as member companies.

The HEINZMANN Group boasts a combined total of fifteen global subsidiaries, including eight production sites and an international distributor network.

The 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.

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