



Regulateurs Europa
Member of the HEINZMANN Group

Product Catalogue

ENGINE & TURBINE CONTROL

**Partner for Manufacturers
Retrofit Solutions**

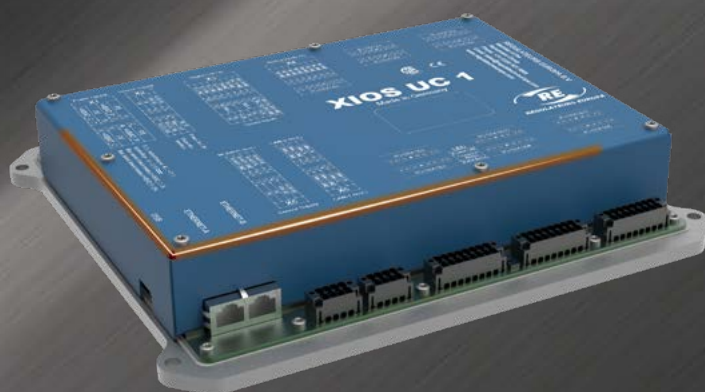
Proven in countless
installations

Easily fitted to
various engines

Reliable and robust

Long service life

Multi-functional control
management



Engine & Turbine Control



REGULATEURS EUROPA CONTROL & RETROFIT

For a wide range of combustion engines

REGULATEURS EUROPA (RE) is amongst the world leaders when it comes to the supply of control and retrofit solutions. From mechanical and electronic governors to turnkey control systems for marine, industrial and offshore applications.

Nearly seventy years of experience developing control philosophies for prime movers is clearly evident in the products and services supplied to engine builders, utility companies and ship operators in addition to many other users around the world. The name REGULATEURS EUROPA has become synonymous with quality and dependability.

REGULATEURS EUROPA is able to supply products that satisfy the most demanding of applications. As a member of the HEINZMANN Group REGULATEURS EUROPA offers a complete portfolio of control solutions for all major types of prime movers and generators with products ranging from standard components to highly complex power management systems.

ENGINE CONTROL

- ▶ Hydraulic & Digital Governors
- ▶ Hydraulic Actuators
- ▶ Test Equipment
- ▶ Accessories
- ▶ Retrofit Solutions



APPLICATIONS

- ▶ Propulsion Control
- ▶ Generator Control
- ▶ Turbine Control

USED FOR

- ▶ Ships
- ▶ Gensets
- ▶ Industrial Applications
- ▶ Offshore Applications
- ▶ Steam Turbines



REGULATEURS EUROPA –
Specialist for Retrofit Solutions

GOVERNORS

REGULATEURS EUROPA is a renowned specialist in the field of hydraulic control. The company delivers a wide range of hydraulic governors.

Customers from the industrial, shipping and rail vehicle sectors value the controllers for their absolute reliability and durability, combined with outstanding operating properties.

As single components or as part of an engine management system - REGULATEURS EUROPA supplies the optimally configured controllers for application-specific requirements.

ELECTRO-HYDRAULIC GOVERNORS

Microprocessor controlled

REGULATEURS EUROPA is continuously extending their hydraulic governor range. Latest development is a microprocessor controlled hydraulic governor, which combines the well proven RE 2800 actuator with a special developed HEINZMANN digital control.

- Strong in control management
- Reliability
- Endurance

RE DG2800.14

The RE DG2800.14 governor is a microprocessor controlled hydraulic governor and consists of the well-proven RE 2800 series actuator and the HEINZMANN digital DC 14 governor. The digital governor controls the proportional solenoid of the actuator by means of a current signal. The RE DG2800.14 includes an integrated speed pick-up, however, if required an external pick-up can be connected. The DC 14 digital governor provides a durable speed control (steady state speed wander < 0.1 % at nominal speed), start fuel limit and functionality typical for generator application, including isochronous load sharing (optional). Marine certification: DNV GL, ABS



TECHNICAL DATA

- Output range Nm: 20.3 | 41.7
- Output range ft lbf: 15 | 30

HYDRAULIC GOVERNORS

High reliable, stable and optimal engine control

Engine builders around the world trust in REGULATEURS EUROPA hydraulic governors whenever a high reliable, stable and optimal solution is needed for specific applications like marine propulsion gensets and turbines.

RE 1800-3G

Powerful mechanical hydraulic governor, providing mechanical speed control and featuring a two-stage, high stiffness, backlash-free hydraulic servo mechanism for best possible control on engines whose fuel control systems require a high work output. Option for start/boost pressure fuel limiter.



TECHNICAL DATA

- Output range Nm: 81-108
- Output range ft lbf: 60-80

RE 1500-3G

Largest of the RE hydraulic governors, providing mechanical speed control and featuring a two-stage, high stiffness, backlash-free hydraulic servo mechanism for best possible control on engines whose fuel control systems require a high work output. Option for start/boost pressure fuel limiter.



TECHNICAL DATA

- Output range Nm: 163, 271, 339
- Output range ft lbf: 120, 200, 250

RE 1115-4G

Hydraulic governor with electronic speed setting for marine propulsion engines. Analogue (4-20 mA) and digital speed setting modes (raise/lower speed) available. Electrically operated stop, electric start fuel limiter or boost pressure fuel limiter. 4-20 mA load signal available. A low build version of the 1115 type governor is available for engines with limited space for the governor. Pneumatic fuel limit and 4-20 mA load signal available.



TECHNICAL DATA

- Output range Nm: 11, 16, 20, 34, 46, 54
- Output range ft lbf: 8, 12, 15, 25, 34, 40

RE 1102-4G

Popular hydraulic governor, providing mechanical speed control of diesel or steam turbine driven gensets. Option for electrically operated stop and/or start fuel limiter.



TECHNICAL DATA

- Output range Nm: 11, 16, 20, 34, 46, 54
- Output range ft lbf: 8, 12, 15, 25, 34, 40

RE 1104-4G

Well proven hydraulic governor with pneumatic speed setting for marine propulsion engines or steam turbines. Electrically/pneumatic operated stop, start fuel limiter, boost pressure fuel limiter and torque control available.



TECHNICAL DATA

- Output range Nm: 11, 16, 20, 34, 46, 54
- Output range ft lbf: 8, 12, 15, 25, 34, 40

DIGITAL GOVERNORS

For reciprocating engines and steam turbines

REGULATEURS EUROPA offers one of the most extensive ranges of digital controls for all types of combustion engines, turbines, generators and CHPs. Their reliability, durability and performance have helped them to gain an outstanding reputation on the market.

► Durable

► Flexible

► Cost Efficient

XIOS UC

Multi-functional and modular engine governor with advanced I/O system. Follow-up product for PRIAMOS DC 1-03/DC 1-04. XIOS UC is the successor product for Viking25 and Viking35.



TECHNICAL DATA

- Processor: 32 Bit 264 MHz
- Communication interfaces: Ethernet, CAN, RS-232, RS-485
- Display: 7" or 10.1" (optional)
- Degree of protection: IP20
- Power supply: 9... 32 VDC

DC 02

The HELENOS DC 2-02 is HEINZMANN's digital control system designed for medium-speed engines and turbines. It serves as the core control component for application-specific systems in marine, locomotive, and turbine applications. It supports external communication via various CAN protocols and Modbus.



TECHNICAL DATA

- Power supply: 24 VDC
- Degree of protection: IP55 oder IP00

DC 06

The PANDAROS DC 6 is HEINZMANN's small but powerful digital control for high-speed engines. It drives HEINZMANN actuators rated up to 40 Nm torque. External communication via variable CAN protocols is available.



TECHNICAL DATA

- Power supply: 24 VDC, 12 VDC
- Degree of protection: IP55 oder IP00

DC 6.200

The DC 6.200 is HEINZMANN's low current version of digital PANDAROS controls. With assisting actuator systems of hydraulic type for instance torques up to 20 Nm are possible. DC 6.200 hardware is well adapted for small actuator currents and therefore it comprises an appropriate software version.



TECHNICAL DATA

- Power supply: 12 | 24 VDC
- Degree of protection: IP00

Viking35

An ECU with a high number of I/Os, suitable for a wide range of complex control and monitoring tasks in ships, locomotives and generators. The Viking35 has established itself as the ideal solution on the market for applications involving complex load sharing in particular. The user-friendly Viking Vision software or a corresponding hand-held device can be used to edit or display control and status parameters in real time. It is combined with hydraulic actuators from REGULATEURS EUROPA.



TECHNICAL DATA

- Power supply: 24 VDC
- Degree of protection: IP00

XIOS^{GenSet}

A multi-functional, digital and cost-efficient system solution offering a wide range of solutions for controlling generators as well as protection and monitoring functions. Only a single central governor is required to control the entire genset system. The device's multi-functional design means it can be used in the best way for each specific customer and the engine and generator control can be configured flexibly. XIOS^{GenSet} can be used for island and parallel operation as well as for individual or group applications. The system is supplemented by a clear, user-friendly and easy-to-operate HMI.



TECHNICAL DATA

- Processor: 32 Bit 264 MHz
- Communication interfaces: Ethernet, CAN, RS-232, RS-485
- Display: 4.3" (optional)
- Degree of protection: IP20
- Power supply: 9...32 VDC
- Functional range: Customer-specific engine & generator monitoring system, scalable and flexible configuration, PC-based adaptation & HMI monitoring, genset monitoring and protection functions, interface with existing analogue load sharing, synchronisation, kW power control, kW load sharing, kVAr load sharing, voltage adjustment, cos Phi control, automatic sequence control, available as an option with speed governor, CAN, Modbus or SAEJ1939 communication protocol, with real-time alarm & logging function

ACTUATORS

The range of hydraulic actuators offered by REGULATEURS EUROPA is built on nearly seventy years of expertise in hydraulic governing.

HYDRAULIC ACTUATORS

Acknowledged for high reliability

All customers in the industrial, marine and railtraction sector acknowledge these actuators for high reliability and durability along with excellent performance. All models are designed to be controlled by HEINZMANN digital controllers like XIOS UC. Alternatively, they can interface with other controllers as part of a customised engine management system by REGULATEURS EUROPA.

- Endurance
- Reliable
- Proven in countless installations

RE 2221-1G

The 2221 is a proportional actuator where the position of the output shaft is proportional to the electrical input signal 0-1 A. This actuator is typically used in medium/high-speed diesel engines in generator systems or locomotives.



TECHNICAL DATA

- Output range Nm: 11, 16, 20, 34, 46, 54
- Output range ft lbf: 8, 12, 15, 25, 34

RE 2231-1GH

Proportional actuator featuring a mechanical hydraulic governor as a ballhead backup in the case of a power failure or controller fault, providing various manual speed setting options. Popular actuator model for marine propulsion engines and other applications where common mode failures must be minimised.

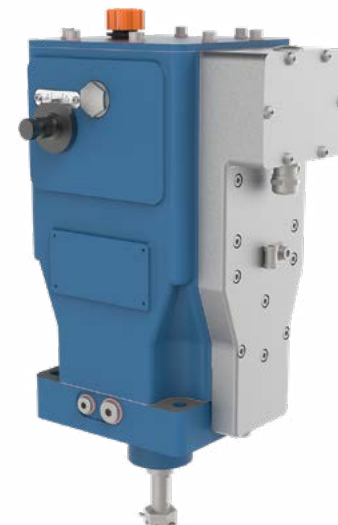


TECHNICAL DATA

- Output range Nm: 11, 16, 20, 34, 46, 54
- Output range ft lbf: 8, 12, 15, 25, 34, 40

RE 2800-1G

This model is a compact hydraulic proportional actuator used in combination with the XIOS range from RE or governors from other manufacturers. It is completely interchangeable with actuators from the UG range.



TECHNICAL DATA

- Output range Nm: 42
- Output range ft lbf: 30

RE 2222-3G

Proportional actuator featuring a two-stage, high stiffness, backlash-free hydraulic servo mechanism for best possible control on larger engines requiring increased work outputs. Option for start/ boost pressure fuel limiter and/or a mechanicalhydraulic governor as a ballhead backup.



TECHNICAL DATA

- Output range Nm: 81, 108
- Output range ft lbf: 60, 80

RE 2223-3G

Proportional actuator featuring a two-stage, high stiffness, backlash free hydraulic servo mechanism for best possible control on large medium-speed engines. Option for start/boost pressure fuel limiter and/or a mechanical hydraulic governor as a ballhead backup.



TECHNICAL DATA

- Output range Nm: 163, 271, 339
- Output range ft lbf: 120, 200, 250

RE 2232-3G

Proportional actuator featuring a two-stage, high stiffness, backlash-free hydraulic servo mechanism for best possible control on larger engines requiring increased work outputs. Option for start/boost pressure fuel limiter and/or a mechanicalhydraulic governor as a ballhead backup.



TECHNICAL DATA

- Output range Nm: 81, 108
- Output range ft lbf: 60, 80

RE 2233-1G

Proportional actuator featuring a two-stage, high stiffness, backlash free hydraulic servo mechanism for best possible control on large medium-speed engines. Option for start/boost pressure fuel limiter and/or a mechanical hydraulic governor as a ballhead backup.



TECHNICAL DATA

- Output range Nm: 163, 271, 339
- Output range ft lbf: 120, 200, 250

TEST EQUIPMENT

REGULATEURS EUROPA provides electrically driven governor test stands for permanent installation. The purpose of the rig is to assist in adjusting, servicing and testing the performance of hydraulic speed governors and hydraulic actuators. Our test stands have been designed to simulate diesel engine operating conditions; the governor and test stand forming a closed loop system. For the setting-up and testing of hydraulic actuators the test stand can also operate in open loop mode. In that instance the drive speed is set at, and controlled from, the stand itself.

Test Stand AK9

Our test stands have been designed to simulate diesel engine operating conditions; the governor and test stand forming a closed loop system. For the setting-up and testing of hydraulic actuators the test stand can also operate in open loop mode. In that instance the drive speed is set at, and controlled from, the stand itself. For testing of governors and actuators of all major brands.



FEATURES

- All-electric 5.5 kW drive
- Includes oil supply to fill the governor under test
- Governor oil may be circulated and pre-heated
- Operated from a 15" colour touch screen HMI
- Includes 4 ... 20 mA speed setting driver
- Operates in open and closed loop mode
- Built-in features of the RE actuator charger / tester.

Actuator Charger / Tester

For calibration of all RE actuators. The magnets in all RE actuators are accurately calibrated at the factory, guaranteeing the actuator performs in the precise manner the design intended. At overhaul of the actuator and/or strip down of the actuator assembly it is essential to re-calibrate the magnet to maintain the accurate operation of the unit. The RE actuator charger/tester is designed specifically to do this task and is available in either 110 VAC or 230 VAC 50/60 Hz power supply format.



FEATURES

- Includes oil supply to fill the governor under test
- Governor oil may be circulated and pre-heated
- Operated from a 15" colour touch screen HMI
- Includes 4 ... 20 mA speed setting driver
- Operates in open and closed loop mode

Actuator Calibration Unit

The actuator calibration unit ACU is a tool for maintenance and repair of HEINZMANN actuators. It is designed to perform a general working test of actuators and to calibrate actuators analogue feedback.



FEATURES

- Analogue feedback calibration
- General working test
- Cable harness included

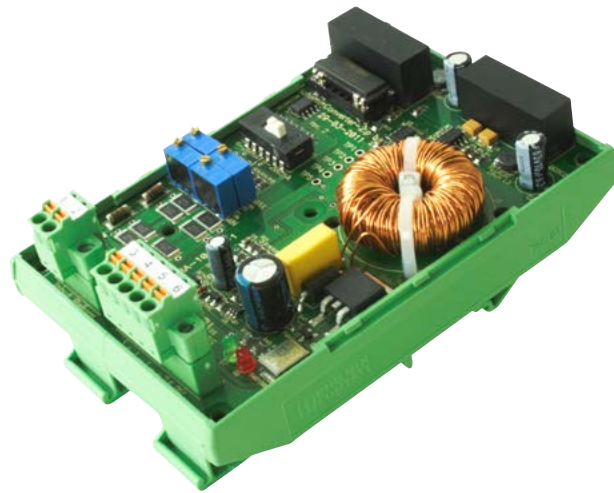
SYSTEM COMPONENTS

For various control systems.

We manufacture and supply converter modules and speed setting devices that enable our hydraulic actuators to be used with control units from other manufacturers.

Converter Module ECM 7118

The amplifier module ECM 7118 provides an interface between any of the REGULATEURS EUROPA range hydraulic actuators and electronic control units from other manufactures.



TECHNICAL DATA

- Size: 75 x 110 x 50 mm
- Mounting: Standard DIN rail mounting
- Power supply: 24 VDC (18 ... 32 V) max. 2 A
- Input: Selectable 0 ... 200 mA or 4 ... 20 mA.
- The input signal is isolated from both power supply and output signal.
- Input resistance: 35 Ω for 0 ... 200 mA input, 235 Ω for 4 ... 20 mA input
- Output: Pre-set for RE series actuators, or 0 ... 1000 mA nominal
- Time lag: < 5 ms for 100 % step
- Ambient temperature: -10 ... +75 °C
- EMC requirements: In order to comply with the requirements of IEC61000-4-2, -3, -4 and -5 the module must be mounted in a steel plate enclosure
- Type approval

Stepper Motor Drive Module

REGULATEURS EUROPA series of hydraulic governors may be equipped with a speed setting device which can be adjusted from a 4-20 mA signal. In this instance the speed setting mechanism in the governor is adjusted by means of a stepper motor, which is controlled by driver M602901F



TECHNICAL DATA

- Analogue speed setting mode
- Ramp rate adjustable for increase or decrease speed
- Raise speed in digital speed setting mode
- Lower speed in digital speed setting mode
- Fast/slow ramp rate selectable if in digital speed setting mode
- Minimum speed stop
- Maximum speed stop
- Selectable reduced maximum analogue speed setting level
- Select idle speed setting level
- Select run-up to rated speed (constant speed)
- Type approval

PARTNER FOR MANUFACTURERS

REGULATEURS EUROPA BV

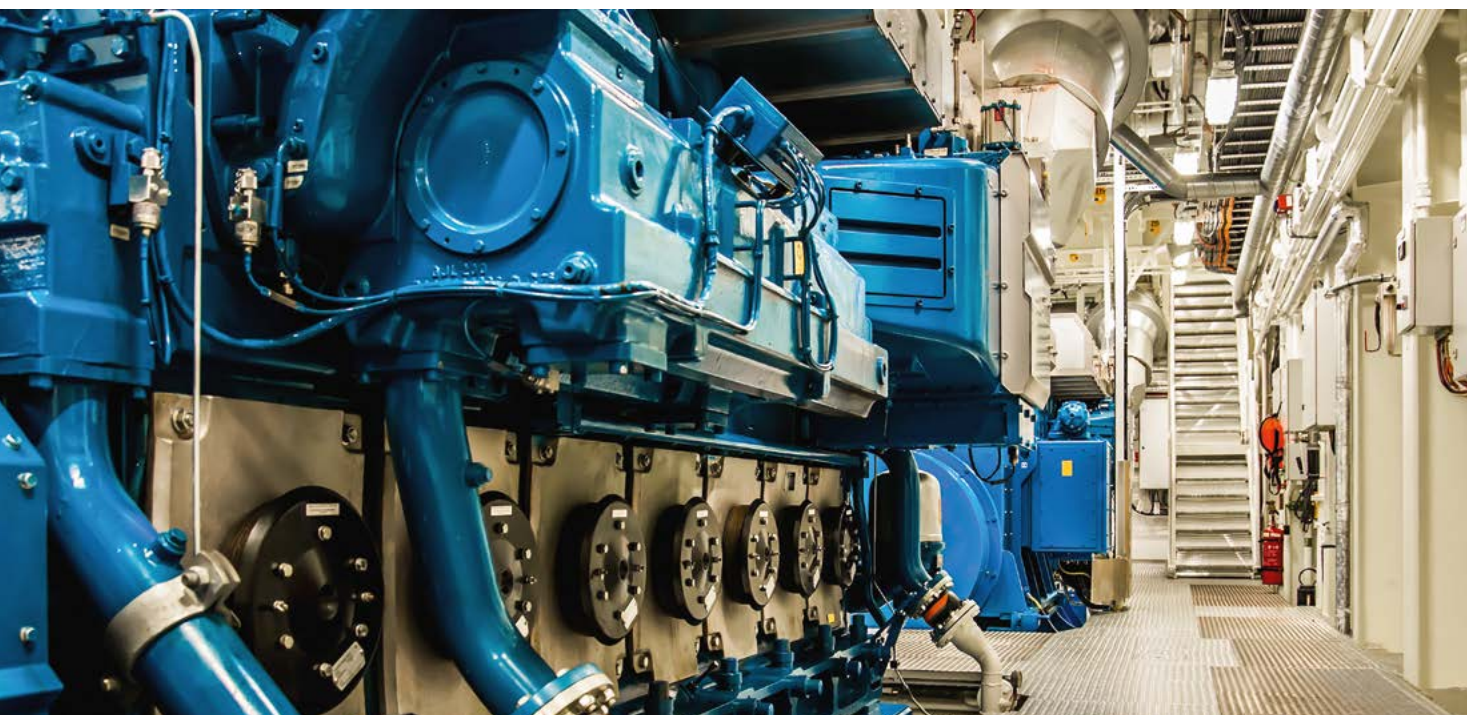
The Control Systems Partner for Engine and Steam Turbine OEMs

Regulateurs Europa BV supports original equipment manufacturers with specialized expertise in governor systems, turbine controls, and engine speed regulation. We work alongside OEM engineering, production, and service teams to deliver reliable control solutions that meet the highest standards of performance, safety, and lifecycle support.

Engineering Expertise You Can Rely On

Our engineers have extensive experience with mechanical, hydraulic, electro-hydraulic, and digital governor systems for industrial, marine, and power-generation applications. We help OEMs optimize control performance, improve reliability, and ensure compliance with customer and regulatory requirements.

Whether your project involves a standard package or a highly customized application, Regulateurs Europa BV provides practical engineering support focused on reducing risk, shortening lead times, and enhancing product value.



Creating Long-Term Value for OEMs

REGULATEURS EUROPA BV MANUFACTURERS PARTNERS BENEFIT FROM:

- ▶ Extended equipment lifetime
- ▶ Reduced maintenance costs
- ▶ Improved operational reliability
- ▶ Increased fuel efficiency
- ▶ Enhanced system functionality
- ▶ Future-proof control architecture
- ▶ Worldwide service support



Supporting OEMs from Design to Aftermarket

We understand that OEMs require more than components—they need a partner who can contribute throughout the entire product lifecycle.

OUR SERVICE SUPPORT

- ▶ New-build engine and steam turbine projects
- ▶ Control system integration and customization
- ▶ Governor selection and engineering support
- ▶ Factory acceptance testing (FAT)
- ▶ Commissioning and start-up assistance
- ▶ Global aftermarket support and spare parts supply

A Reliable Extension of Your Engineering Team

Many of the world's engines and steam turbines remain in operation for decades. Regulateurs Europa BV helps OEMs maintain customer satisfaction long after delivery through responsive technical assistance, upgrade programs, and lifecycle management solutions.

RETROFIT SOLUTIONS

EXTENDING LIFETIME. ENHANCING PERFORMANCE.

Modernizing existing control systems is often the most cost-effective way to improve reliability, availability, efficiency and compliance. **REGULATEURS EUROPA** provides tailored retrofit solutions for marine, power generation, industrial and offshore applications.

Why retrofit?

- **Obsolescence Management:**
Replace unsupported controllers, governors, actuators and interface modules.
- **Increased Reliability:**
Reduce unplanned downtime and improve system availability.
- **Improved Performance:**
Enhance engine response, load acceptance and speed stability.
- **Compliance & Safety:**
Meet current operational, environmental and classification requirements.
- **Long-Term Serviceability:**
Ensure spare parts availability and future support.



CUSTOMER BENEFITS

- ▶ Extended equipment lifetime
- ▶ Reduced maintenance costs
- ▶ Improved operational reliability
- ▶ Increased fuel efficiency
- ▶ Enhanced system functionality
- ▶ Future-proof control architecture
- ▶ Worldwide service support

Our Retrofit Process

- **Site Survey & Assessment:**
Evaluation of the existing installation and operational requirements.
- **Engineering & Design:**
Development of a customized retrofit solution.
- **Manufacturing & Testing:**
Factory assembly and testing prior to installation.
- **Installation & Commissioning:**
Professional implementation by experienced field engineers.
- **Training & Documentation:**
Comprehensive documentation and operator training.
- **Lifecycle Support:**
Worldwide service, spare parts supply and technical assistance.



Retrofit Scope

Hardware Replacement:

- ▶ Governors
- ▶ Actuators
- ▶ Digital Controllers
- ▶ PLCs
- ▶ HMIs
- ▶ Control Cabinets

System Integration:

- ▶ Existing engine systems
- ▶ Power management systems
- ▶ Vessel automation systems
- ▶ SCADA and plant control systems
- ▶ Communication interfacing

Typical Retrofit Applications

- **Governor Retrofits:**
Upgrade from mechanical or legacy electronic governors to modern digital control systems.
- **Actuator Modernisation:**
Replacement of obsolete hydraulic actuators with state-of-the-art electro-hydraulic solutions.
- **Generator Control Upgrades:**
Modern generator control, load sharing, synchronization and power management solutions.
- **Propulsion Control Retrofits:**
Modernization of main engine control and propulsion systems for enhanced vessel operation.
- **Turbine Control Retrofits:**
Replacement of aging control hardware with advanced turbine control platforms.

SERVICES

REGULATEURS EUROPA has a team of field service engineers to install, commission, repair or maintain REGULATEURS EUROPA's products.

All our engineers are trained in REGULATEURS EUROPA products and their applications. Our 24 hour response capability ensures a dedicated team of skilled service engineers available worldwide for planned services or emergency call outs.

We also offer a service exchange scheme and in-house repair service with comprehensive warranty. The global network of REGULATEURS EUROPA agents and distributors provide a truly worldwide service facility.

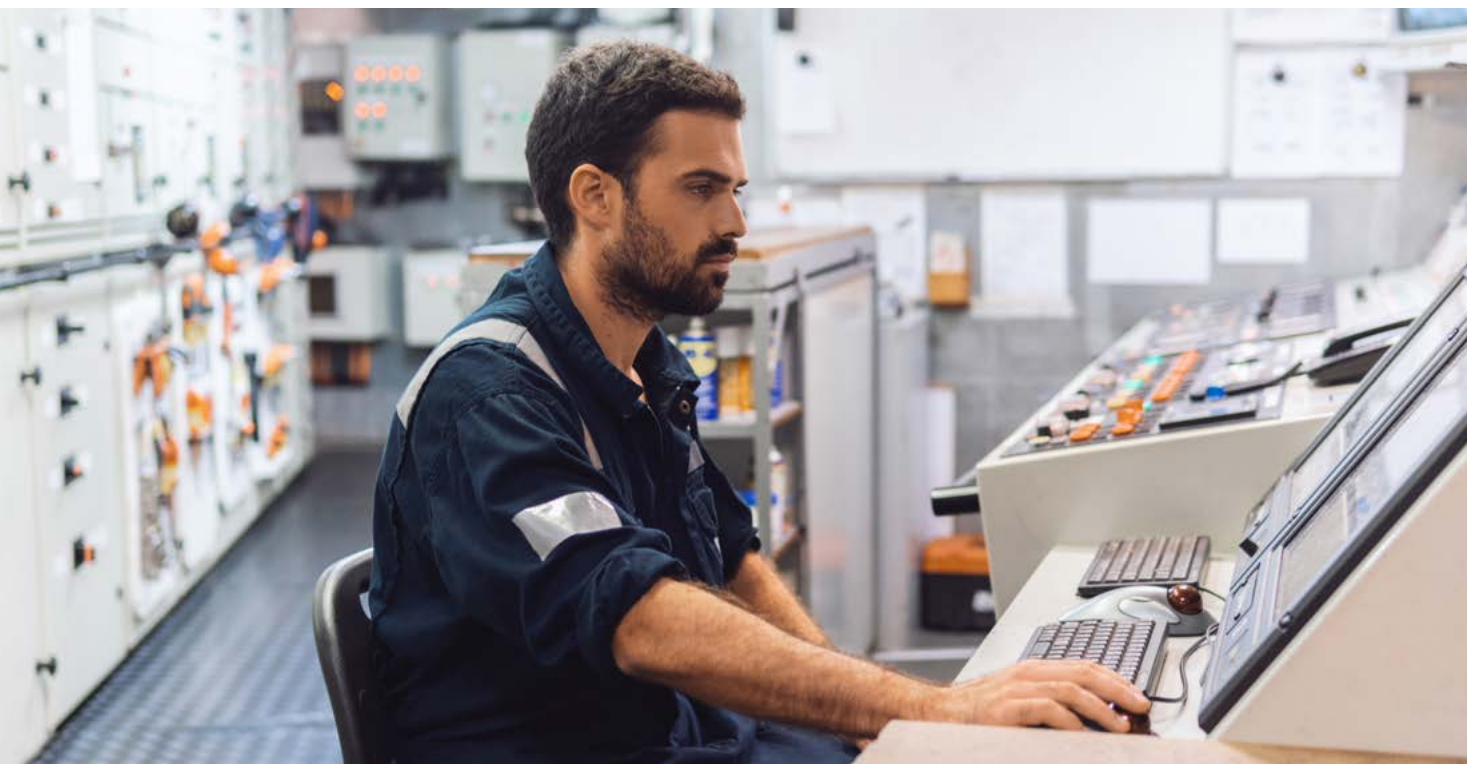
SPARES, OVERHAULS & SERVICE EXCHANGE

Worldwide Service

REGULATEURS EUROPA has a network of authorised service facilities that are experts in the fields of governor maintenance and repair. For the maintenance of your current product or an upgrade to the latest products please contact REGULATEURS EUROPA or your nearest service facility.

REGULATEURS EUROPA offers 24/7 emergency assistance.

+31 505019888



Service Exchange

We offer a range of REGULATEURS EUROPA service exchange governors. If you have maintenance problems and cannot return the governor for an overhaul then call our Customer Support Department to discuss the service exchange options that are available or arrange a service engineer.

REGULATEURS EUROPA further offers preventive maintenance contracts for control systems, diesel power stations and interface circuitry as well as mechanical/electrical maintenance for diesel power stations.



Overhauls

We offer overhaul facilities at both our UK and Netherlands sites for a range of manufacture of governors.

REGULATEURS EUROPA only use genuine spare parts on any governor overhauls.

We offer overhauls for different manufacturers of governors.



Spare Parts

REGULATEURS EUROPA holds a large amount of spares at its factories in the Netherlands.

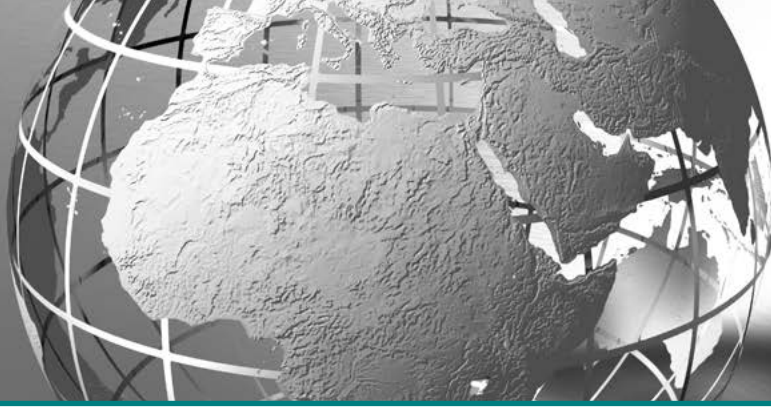
A network of independent service facilities holds stocks of genuine spare parts. To ensure that you are using REGULATEURS EUROPA genuine spare parts contact your nearest service facility.

Installation & Commissioning

Manufacturers, packagers and operators trust in REGULATEURS EUROPA governors and control systems.

RE governors and actuators are proven in many applications and in various types of engine. Key application areas for REGULATEURS EUROPA are marine, traction and industrial.





HEINZMANN GROUP - THINKING IN DRIVE AND CONTROL

HEINZMANN is a globally active family business founded in 1897 with its headquarters in Schönaue (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 characterises the spirit within the HEINZMANN group of companies and makes us a reliable partner.

HEINZMANN SUBSIDIARIES

Headquarters

HEINZMANN Group

Germany

Heinzmann GmbH & Co. KG

Schönaue

Phone +49 7673 8208-0

info@heinzmann.de

www.heinzmann.com

Germany

CPK Automotive GmbH & Co. KG

Münster

Phone +49 251 777 969-0

info@cpk-automotive.com

www.cpk-automotive.com

Austria

Heinzmann IFT GmbH

Uderns

Phone +43 5288 62258-0

office@heinzmann-ift.com

www.heinzmann-ift.com

The Netherlands

Regulateurs Europa B.V.

Roden

Phone +31 5050 19888

sales@regulateurs-europa.com

www.regulateurseuropa.com

United Kingdom

Heinzmann

Regulateurs Europa Ltd.

Colchester

Phone +44 1206 799 556

info@heinzmann-re.com

www.heinzmann-re.com

Giro Engineering Ltd.

Southampton, Hampshire

Phone +44 1489 885 288

giro@giroeng.com

www.giroeng.com

Ukraine

Heinzmann /

Regulateurs Europa

Kiev

Phone +38 44 331 96 75

hzm-kiev@hzm.com.ua

Norway

Heinzmann Automation AS

Kleppestø

Phone +47 55 26 56 86

post@heinzmann.no

www.heinzmann.no

China

**Heinzmann Power Control
(Jiaxing) Co. Ltd.**

Jiashan

Phone +86 573 8466 1358

hzm-sh@heinzmann.com

www.heinzmann.cn

Korea

**Heinzmann /
Regulateurs Europa
Korea Pte. Ltd.**

Ulsan

Phone +82 52 227 7673

heinzmann@korea.com

Australia

Heinzmann Australia Pty Ltd

Geebung QLD

Phone +61 7 3868 3333

info.au@heinzmann.com

www.heinzmann.com.au

USA

**Heinzmann /
Regulateurs Europa
America Inc.**

Glendale Heights, IL

Phone +1 970 484 1863

info.usa@heinzmann.com

South Africa

Heinzmann Südafrika

Stellenbosch

Phone +27 82 6898100

diemont@worldonline.co.za

Regulateurs Europa B.V.

Ekkelkamp 3 | 9301 ZZ Roden | Netherlands

Phone +31 5050 19888 | sales@regulateurs-europa.com

www.regulateurseuropa.com



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