Governors
Actuators
Controls
Monitoring
**REGULATEURS EUROPA (RE)**

REGULATEURS EUROPA encompasses a wide range of skills that allows it to provide control and governing solutions to engine builders and users in all corners of the world. Its history of involvement with prime movers is what can be seen in the products and services that it now offers.

The story of REGULATEURS EUROPA started about 60 years ago when the need for better diesel engine speed governing led to the formation of a small team of innovative designers. The designs that they created have been built upon, over the years, until we have the comprehensive RE range that you see today. Hydraulic governors and actuators still form a significant part of the product list but digital electronic governing has taken over many of the more complex applications.

The move into control systems was a logical step. The earliest systems were for remote controlled and unmanned marine engine rooms. Since those days REGULATEURS EUROPA control and monitoring systems have become a significant part of the business with industrial, marine and rail traction installations in a wide range of application worldwide. From standard products to the most complex power management systems, it is the RE experience and know-how that makes the difference.

REGULATEURS EUROPA is now part of the Heinzmann Group. This move has many benefits for RE and its customers. There are many synergies within the businesses that help to expand the range of applications that can be addressed; including gas, steam and combined cycle power systems.

Joint developments between REGULATEURS EUROPA and HEINZMANN are also proving a success with RE’s hydraulic governing knowledge being amalgamated with HEINZMANN’s long experience of creating cost effective electronic solutions. RE is also investing in products that are equally at home in the wider industrial market as they are in the control of prime movers.

The marriage of REGULATEURS EUROPA and HEINZMANN has also provided access to a large global network of sales representatives and service agencies. Parts, service and overhaul are seen by RE as essential to providing a complete package to customers and users.

**REGULATEURS EUROPA APPLICATIONS**

REGULATEURS EUROPA is uniquely placed to offer control and governing solutions for engine builders and users of prime movers. It may be a standard product or a fully customised system. RE engineers are experienced in controlling engines and power generation in ships, power stations, buildings and locomotives etc.

The wide range of engineering disciplines covered means that REGULATEURS EUROPA can provide a product or design that will be correct for the application.

**Marine**
- **Industrial**
  - Wide range of hydraulic governors
  - Digital electronic governors/engine management systems

- **Traction**
  - Hydraulic actuators with ballhead backup option
  - Control & monitoring systems
  - Distributed I/O
**Marine applications: 2231-1G**

Hydraulic actuator with a mechanical ballhead backup governor. This actuator is based upon the 1100 series governor and is specially designed for marine applications requiring electronic speed control and a complete backup in the event of control unit or power failure. The actuator is either reverse or forward acting. The mechanical backup section includes manual speed setting and an externally activated shutdown solenoid. If required the speed setting of the backup governor may track the speed setting of the electronic speed control.

**Generator applications: 1102-4G**

Hydraulic governor for generator applications. Output range is 8, 12, 15, 25, 34 or 40 ft.lbf. (11, 20, 34, 46 or 55 joules).

Available with several types of speed setting motor voltage ranges.

This governor may be equipped with an electrically operated stop and/or an electrical start fuel limiter.

The 1102-4G is the ideal governor for simple power generation applications on diesel or steam driven plant.

**Marine applications: 1115-4G**

Hydraulic governor for marine applications. Output range is 8 to 40 ft.lbf. (11 to 55 joules).

The speed setting of this governor is by means of either a 4 – 20 mA signal or by means of raise/lower speed command inputs. The speed setting operates in conjunction with the 1115 driver unit. In case of power failure or malfunction of the driver unit the speed setting is left in its last position and can be adjusted by hand.

This governor may be equipped with an electrical operated stop, an electrical start fuel limiter or a boost pressure fuel limiter.

**Generator/traction actuator: 2221-1G**

The 2221 is a proportional actuator in which the output shaft position is proportional to the electric input signal 0 - 1 Amp. Output range is 8 to 40 ft.lbf. (11 to 55 joules).

Typical application of this actuator is the use on medium and high-speed diesel engines for generator or traction applications. The actuator would normally be used with the REGULATEURS EUROPA Viking range of digital governors/engine management control units.

**Marine applications: 2231-1G**

Hydraulic actuator with a mechanical ballhead backup governor.

This actuator is based upon the 1100 series governor and is specially designed for marine applications requiring electronic speed control and a complete backup in the event of control unit or power failure. The actuator is either reverse or forward acting. The mechanical backup section includes manual speed setting and an externally activated shutdown solenoid. If required the speed setting of the backup governor may track the speed setting of the electronic speed control.
**Generator/marine governor: 1800-2G**

**Actuator: 2222/2232-1G**

The 1800 governor/actuator has a two-stage high stiffness backlash free hydraulic servo mechanism to enable best possible control. Furthermore, the feedback system incorporates a unique reset cut off feature which assists in optimising the governor response.

The output range is 60 and 80 ft.lbf. (81 to 108 joules). The governor is available with motorised pneumatic and 4 - 20 mA speed setting. A start/boost pressure fuel limiter may be incorporated.

The 1800 is also available as an actuator, with and without mechanical backup, to be controlled by an electronic governor.

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**Generator/marine governor: 1500-3G**

**Actuator: 2223/2233-1G**

The most powerful governor/actuator produced by REGULATEURS EUROPA. The output range is 120 to 250 ft.lbf. (160 to 337 joules). The governor can have either motorised speed setting or speed setting by means of a pneumatic or 4 – 20 mA signal.

The unit is available as a governor or an actuator to be driven by an electronic governor. The actuator may be equipped with a mechanical governor backup.

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**Digital governor: DG2800**

**Actuator: 2800**

The 2800 provides a compact 30 ft.lbf. (40 joules) solution for engine builders and for the retrofit market. It can be provided as a proportional actuator for use with REGULATEURS EUROPA Viking governors or other proprietary ECU,s, or as a complete digital governor with integrated electronics and speed measurement.

The 2800 series governors or actuators are designed for easy fitting in place of other proprietary governors. The DG2800 offers an instant upgrade route.

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**Diesel engines & generator systems: Viking35**

The Digital Electronic Governor Viking35 is designed to control all diesel engines in propulsion, traction or generator systems. A wide variety of software is available to suit these applications. Especially for complex loadsharing the Viking35 is proven to be the best available solution.

In its base format 16 off digital inputs and outputs and 8 off analogue inputs and outputs are available together with 2-RS485/RS232 & 3-CAN bus ports.

The user friendly “Viking Vision” PC programming package or a hand held interface unit allows control and status parameters to be edited or displayed in real time.
**MARINE SYSTEMS**

**Integrated solutions**

REGULATEURS EUROPA has a range of standard solutions that can be supplied for the commercial and military marine control, monitoring and safety market. Systems can be custom-designed for a specific vessel and are often based around the marine approved RE Viking digital electronic hardware.

REGULATEURS EUROPA specialises in integrated solutions that incorporate governing, control monitoring and safety, whilst maintaining the independence that is necessary for safe operation.

**Generator and power control solutions**

REGULATEURS EUROPA's past projects have included generator and power control solutions for many different applications. These include banks, hospitals, hotels, telecommunication centres, airports, water treatment works, sewage treatment works, nuclear power stations and process plants. Customers for these systems are not only located in the UK and other European countries but around the world; from Brazil to India and Africa to Australia.

The control systems are designed using the latest PLC, HMI and SCADA technology and, where appropriate, incorporate the field bus networks and serial communications that help to reduce the amount of installation cabling.

**Customised systems**

The functionality of single control panels or complete control systems is tailored to meet the customers’ and end users’ needs.

**INDUSTRIAL SYSTEMS**

**Integraded solutions**

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RAIL TRACTION SYSTEMS

Optimised operation

REGULATEURS EUROPA can capitalise on over 40 years experience of controlling rail traction engines including the generator load. The move to digital electronic control has made it possible to optimise operation and to communicate with the locomotive systems via serial links. Alternatively RE can provide the complete package.

The controls package may include monitoring that is relayed back to the depot for real time analysis or logged for later review.

OVERHAULS AND RETROFITS

REGULATEURS EUROPA can offer overhauls of governors and control systems or fully engineer retrofits to update installations. It is all part of the service that includes on-site fault recovery, commissioning and spares support.

The DG2800 is particularly designed as an easy form and fit upgrade for existing proprietary governors.

ACCESSORIES

REGULATEURS EUROPA can provide a number of products to complement the governor and systems business. Of particular interest is the

Iceni distributed I/O

The Iceni range of distributed I/O modules can be used to extend the REGULATEURS EUROPA Viking35 ECU or communicate with other PC or PLC equipment. The DIN rail mounted modules are designed to be cost effective and easy to configure, via a colour display keypad, without the need for a programmer. Iceni is designed to encompass an engine environment but be equally suited to a much wider role. Thus opening new markets for RE technology.
Marine

Industrial

Traction

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