

# CONTROL SYSTEMS

Industrial Turbines, Engines,  
Pumps et Compressors

HEINZMANN

Regulateurs Europa



## OVERSPEED PROTECTION SYSTEM

### SAPPHIRE III

- > triple redundancy (SIL 3)
- > ATEX hazardous areas
- > critical and semi-critical rotating machinery
- > the latest built



## SPEED CONTROLLER CONTROLLER XIOS UC

- > management of engines, turbines, generators, and cogeneration
- > modular and scalable
- > diagnostic functions for fault detection
- > one of the best in the market today



## SYNCHRONIZING CONTROLLER

### CONTROLLER SI-TEC XTEND TGC-CGC

- > 2 models (CGC: cogeneration; TGC: total generator control)
- > automatic synchronization
- > load sharing



## GENSET CONTROLLER CONTROLLER SI-TEC XTEND GSM

- > for grid-parallel or islanded operation
- > 2 models: GSM Grid and GSM BTB (for controlling tie breakers)



## SPEED CONTROLLER CONTROLLER DARDANOS

- > engine speed control
- > EFI (Electronic Fuel Injection) control
- > diesel, gasoline, and dual-fuel engines
- > fuel efficiency optimization and reduction of pollutant emissions



## SYNCHRONIZER-CONTROLLER CONTROLLER THESEUS DGM 02

- > synchronization, protection, and load management for generator sets
- > islanded and grid-parallel operation



## SPEED GOVERNOR GOVERNOR DG 28000.14

- > electro-hydraulic governor for engines and turbines
- > integrated hydraulic actuator
- > marine approval



## SPEED GOVERNOR GOVERNOR 1500-3G

- > stable diesel engine operation, even in the event of turbocharger failure



## CONVERTER CONVERTER HPC I-H

- > current-to-pressure (I/P) converter for positioning steam turbine control valves
- > stable and precise control of valves/servomotors



### AIR/FUEL SYSTEM

#### KRONOS 20

- > electronic air/fuel ratio correction system
- > improved start and engine speed stability
- > compliance with emission standards across the entire load and speed range



### CONTROL SYSTEM

#### KRONOS 40

- > speed/load control system for gas engines
- > precise gas metering
- > individual cylinder adjustment



### ACTUATOR

#### ACTUATOR StG 16-30-40

- > maximum torque for guaranteed performance and longevity
- > wide range of motion
- > precise control and easy installation



### ACTUATOR

#### ACTUATOR StG 180

- > maximum torque of 200 Nm and torsional angle of 42°
- > extreme conditions
- > diesel and gas engines, gensets, and marine propulsion engines



### GAS VALVE

#### VALVE EVOLUTION-II-HT-G

- > assembly comprising valve, position servo-actuator and digital flow controller
- > natural gas-fired and DLE gas turbines
- > ATEX certified



### GAS VALVE

#### VALVE EVOLUTION III

- > for higher output torques
- > natural gas-fired and DLE gas turbines
- > self-cleaning and ATEX certified



### HYDRAULIC AMPLIFIER

#### HYDRAULIC AMPLIFIER HA22M

- > controlled linear servomotor
- > with mechanical input, single- or double-acting



### HYDRAULIC AMPLIFIER

#### ELECTRO-HYDRAULIC AMPLIFIER HA22E

- > controlled linear servomotor
- > electrically operated, single- or double-acting



### LIQUID FUEL METERING PUMP

#### OPTIFLOW

- > pumping and flow control of required fuel
- > for gas turbines
- > ATEX



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