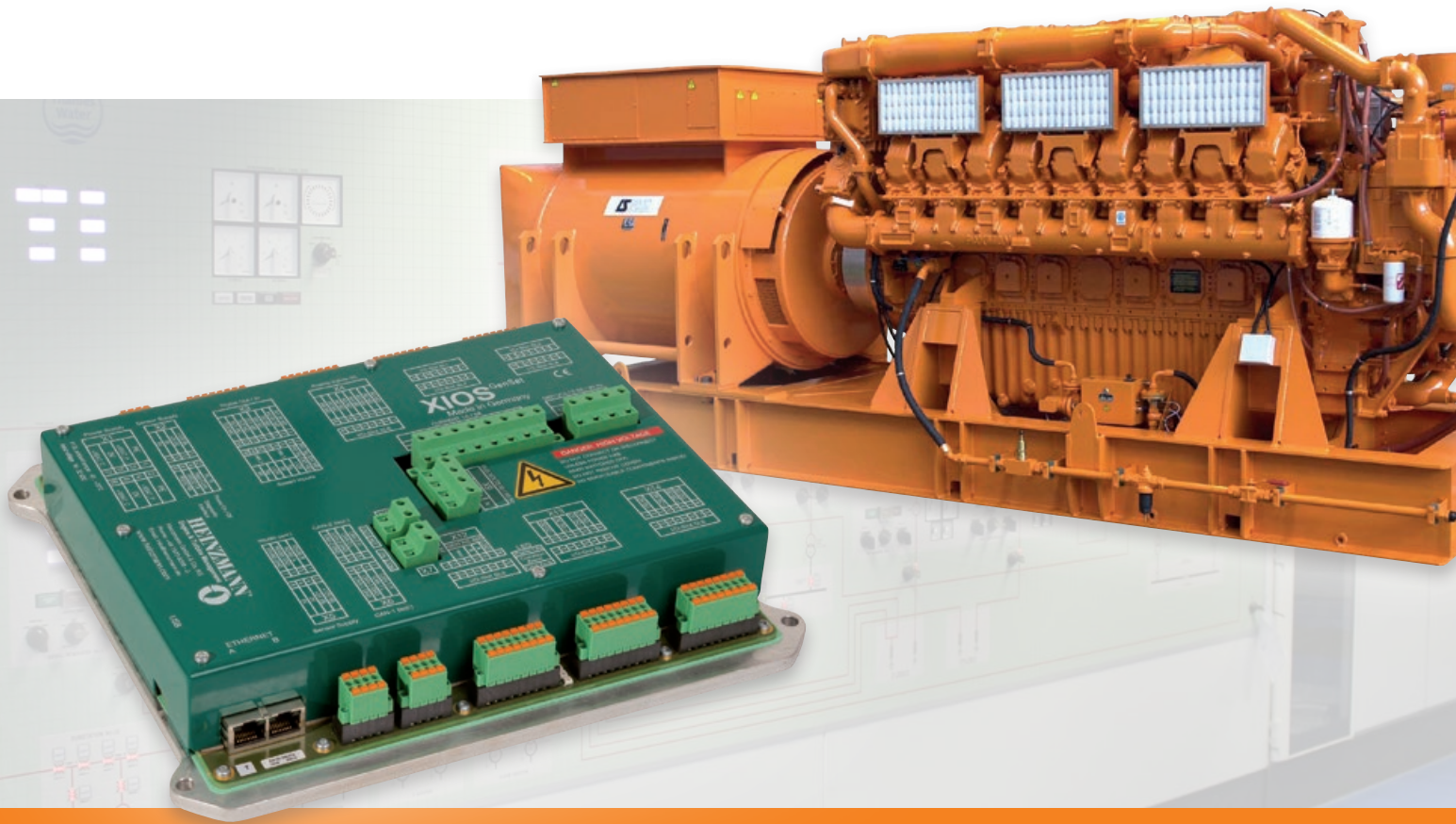




XIOS GenSet



New Multifunctional GenSet Control and Monitoring

- ▶ For island and mains-parallel, single genset or group application
- ▶ Customized engine & generator control
- ▶ Scalable & flexible configuration
- ▶ Multifunctional & cost-effective
- ▶ Different HMIs available

Engine & Generator Management

XIOS^{GenSet}

All in one engine & generator control

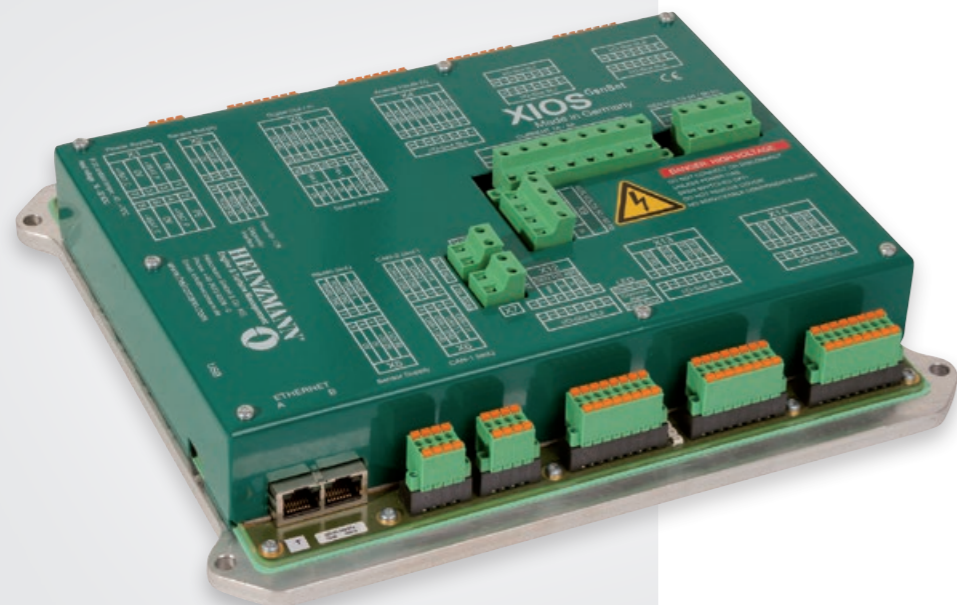
The novel XIOS^{GenSet} controller is an all-rounder for any generator system application: it combines all relevant benefits of a combustion engine speed governor with a generator control.

Only one central controller is needed for control and monitoring of the entire genset system. XIOS^{GenSet} provides a wide range of control, protection and supervision.

XIOS^{GenSet} is available in different versions for island and mains-parallel, single genset or group applications.

This multifunctional HEINZMANN control and monitoring unit convinces with scalable and flexible configuration possibilities.

XIOS^{GenSet} is developed for fuel-efficient operation. These advantages make this highly versatile genset controller a cost-effective solution for all genset applications.



XIOS^{GenSet} Benefits

- ▶ **High flexibility**
- ▶ **Long life cycle**
- ▶ **One configuration software for all systems**
- ▶ **Different HMIs available**
- ▶ **PC based adjustment & HMI monitoring**
- ▶ **CAN communication**
- ▶ **Interface with existing analogue load sharing**
- ▶ **Synchronizing**
- ▶ **kW load control**
- ▶ **kW load sharing**
- ▶ **Voltage matching**
- ▶ **kVAr load sharing**
- ▶ **Genset protection**
- ▶ **Automatic sequencing**
- ▶ **Real time alarm/data log**
- ▶ **Power factor control**

Generator Management Functions

- Whether in island or mains-parallel operation, single genset or group, there is an appropriate version for every application which, in conjunction with the HEINZMANN HMI, provides a comfortable and user-friendly system
- XIOS^{GenSet} is available in different variants: Each of these has a predetermined range of functions and communication interfaces suitable for user configuration via the DcDesk communication software
- Further optional enhancements such as Modbus, for interfacing to external PLC/SCADA packages as well as the touch-screen HMI and for interfacing with most standard positioner electronics, make XIOS^{GenSet} the complete generator management solution
- Simple generator control
- Protection for land power application
- Fully integrated and engineered power management system in preparation
- All functions that are needed to protect and control a diesel generator, an emergency generator, a shaft generator, a shore connection or bus tie breaker
- Marine classification pending

Speed Governor Functions

- The XIOS^{GenSet} allows start fuel limitation with respect to engine temperature for an optimum fuel quantity during start and run-up phase and reduction of start-up smoke to a minimum
- Adaption of governors dynamic characteristic (PID) to speed, load and engine temperature
- Fuel limitation depending on speed, boost pressure, temperatures and further parameters for optimal load factor and in order to protect the engine
- Speed dependent monitoring of oil pressure with or without engine stop for engine protection
- Engine, governor and sensor monitoring
- Speed ramp for increasing or decreasing speed
- Automatic engine start & stop functions

XIOS^{GenSet} Versions

The XIOS^{GenSet} versions offer high flexibility to the user and make the system suit all engine sizes.

Island-parallel Operation

- ▶ Synchronizing
- ▶ Voltage control & VAR sharing
- ▶ Load sharing
- ▶ Load ramping for wattless operation of breaker

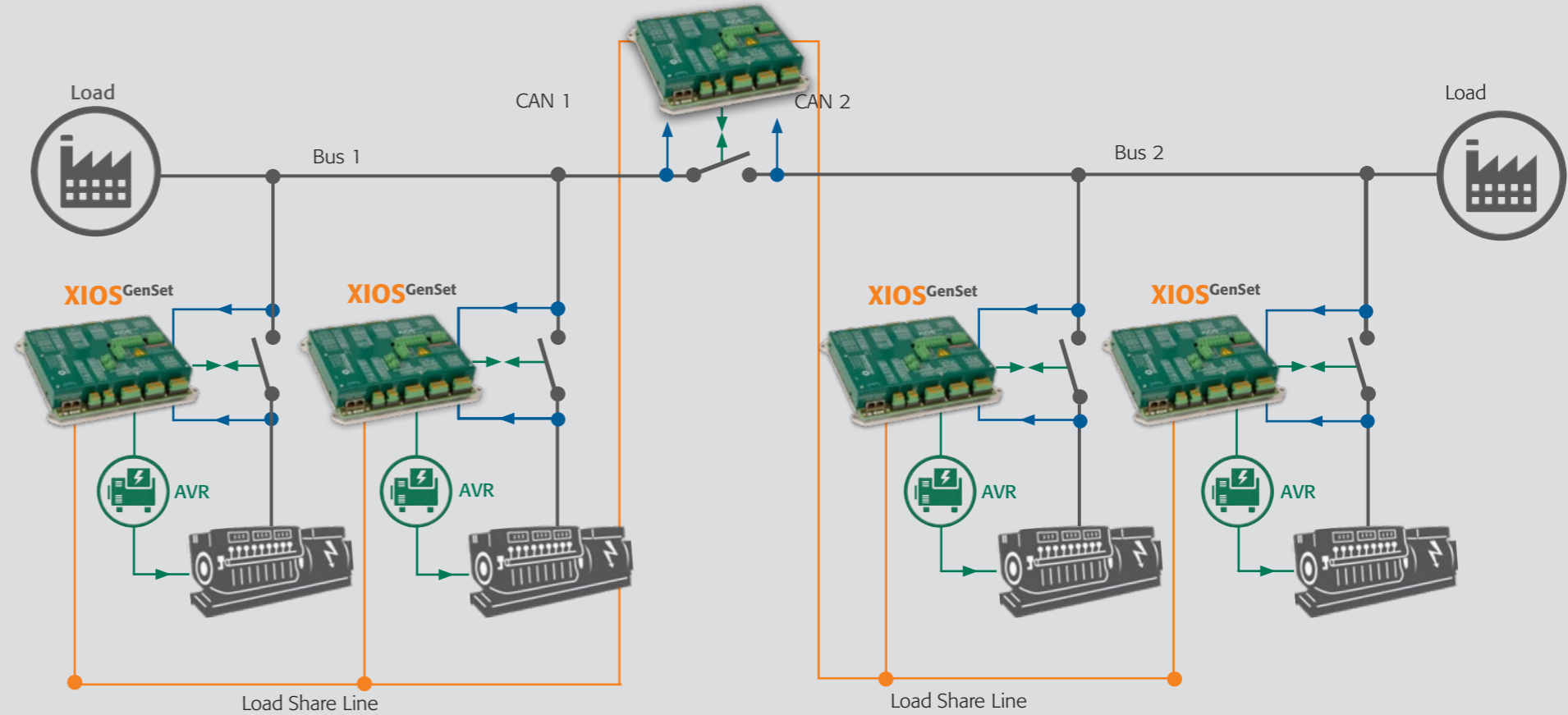
Island-parallel Operation of Groups

- ▶ Synchronizing bus 1 to bus 2
- ▶ VAR sharing between bus 1 and bus 2
- ▶ Load ramping for wattless operation of breaker
- ▶ Opening of bus breaker without load
- ▶ Bus breaker monitoring and protection

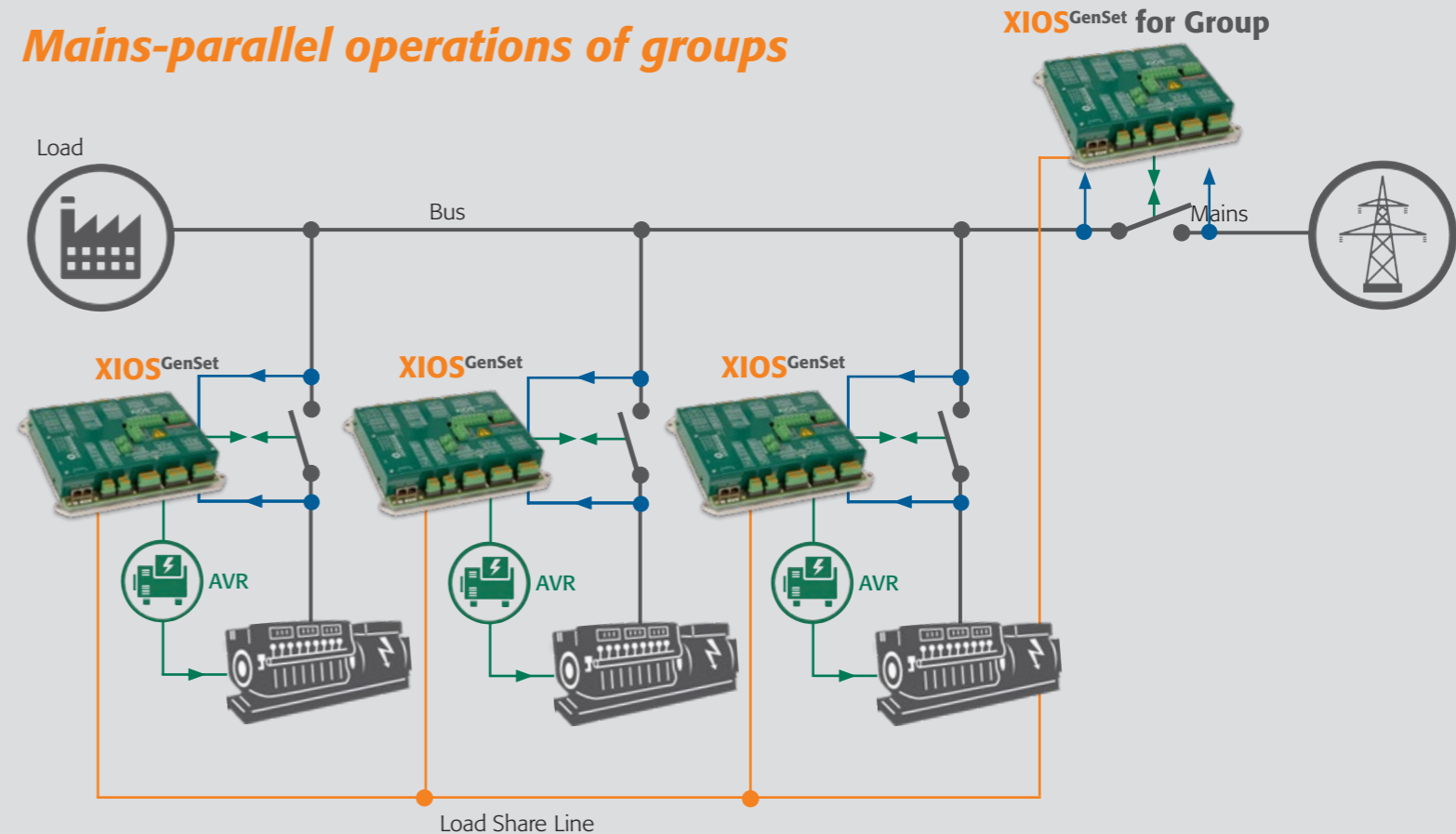
Mains-parallel Operation

- ▶ Synchronizing bus to mains
- ▶ Import/export control
- ▶ Base load control
- ▶ Power factor control
- ▶ Load ramping for wattless operation of breaker
- ▶ Mains failure detection with opening the breaker
- ▶ Mains breaker monitoring and protection
- ▶ Automatic back-synchronization after mains restoration

Island-parallel operations of groups XIOS^{GenSet} for Group



Mains-parallel operations of groups XIOS^{GenSet} for Group



XIOS^{GenSet} System Solution

The HEINZMANN XIOS^{GenSet} solution provides simple genset control and protection. It is completed by a user-friendly HMI, which makes the system operation very comfortable. In addition to that HEINZMANN's DcDesk service and parametrization tool makes configuration easy.

DcDesk Service Program Package

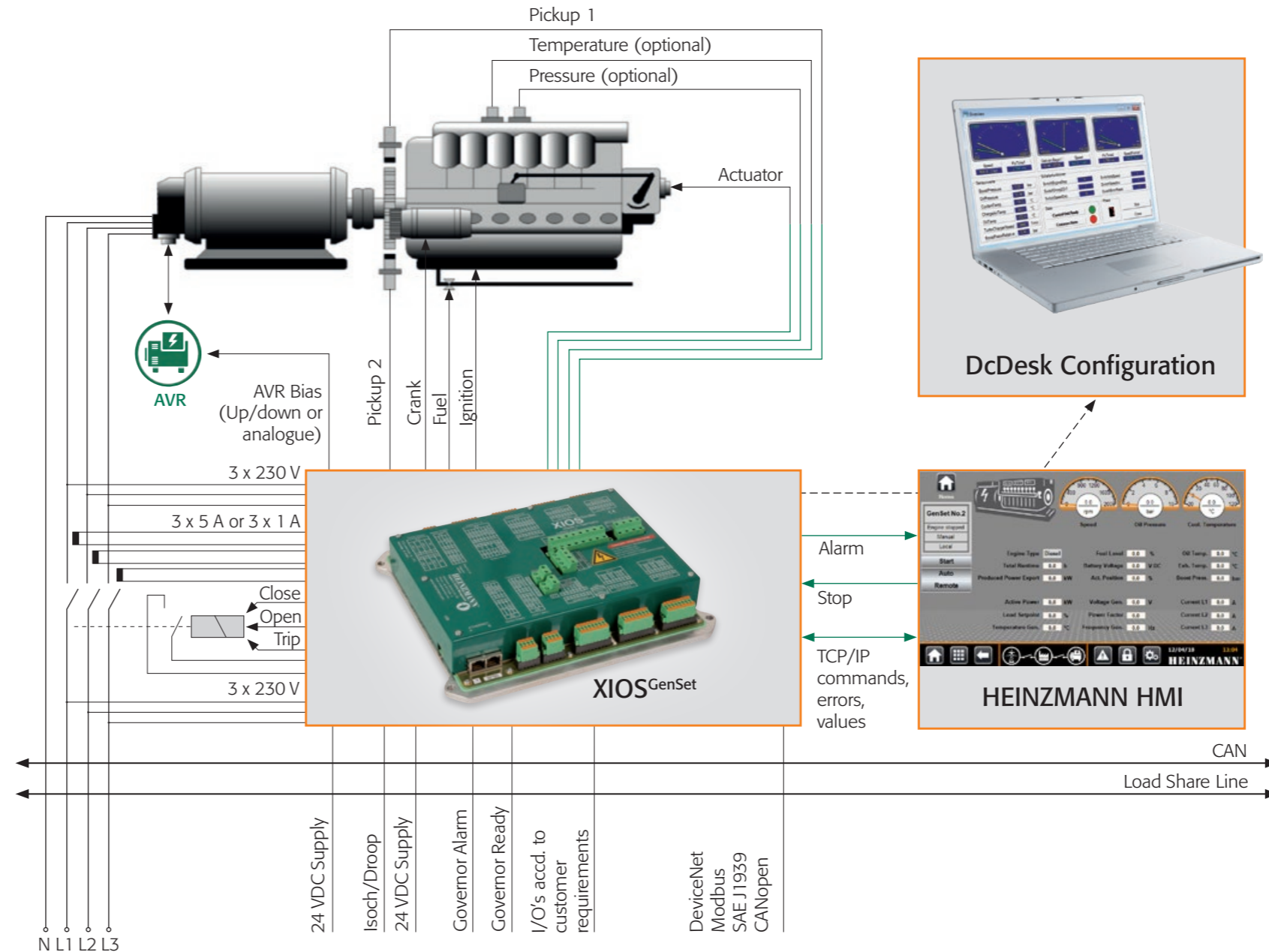
HEINZMANN DcDesk can be used to adjust and view operational data. It offers a number of numerical and graphical features required for testing, configuration, commissioning and servicing. DcDesk provides a user interface with adaptable product views, project application specific views and multi language support. It allows to download software fast and easy.

HEINZMANN HMI

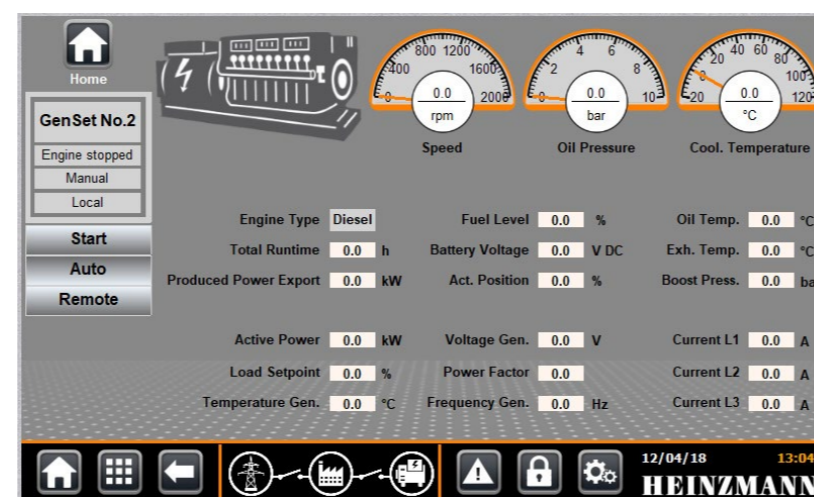
Part of the system is a touch-screen for genset operation and monitoring, providing

- ▶ Genset/mains breaker status
- ▶ Alarm display and logging
- ▶ TCP/IP connection to external PLC/SCADA

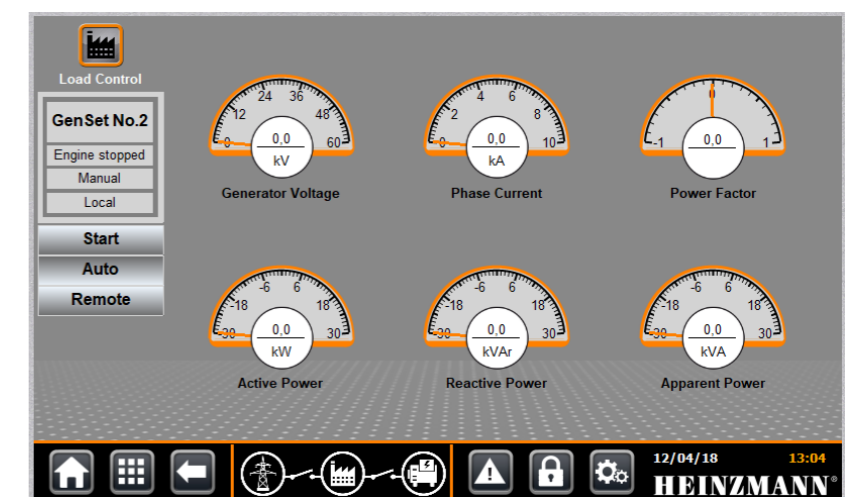
XIOS^{GenSet} System Overview



HMI Start Page



HMI Overview



HMI Load Control

HEINZMANN Group

Quality & Precision
since 1897

The Group started in 1897 with
Heinzmann GmbH & Co. KG,
and now includes
HEINZMANN UK,
HEINZMANN China,
HEINZMANN Korea,
HEINZMANN India,
HEINZMANN Australia,
HEINZMANN AUTOMATION,
REGULATEURS EUROPA,
and CPK Automotive as
member companies.

The HEINZMANN Group
operates numerous global
subsidiaries, including eight
production sites and an
international distributor
network.

Our 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.



● Head office ● Subsidiaries ● Subsidiaries with production facilities ● Distributors and dealers

HEINZMANN Subsidiaries

Australia

Heinzmann Australia Pty Ltd

Geebung QLD 4034
Phone: +61 7 3868 3333
info.au@heinzmann.com
www.heinzmann.com.au

China

Heinzmann Power Control (Jiaxing) Co. Ltd.

Jiashan
Phone: +86 573 8466 1358
hzm-china@heinzmann.com

Germany

CPK Automotive GmbH & Co. KG

Münster
Phone: +49 251 23948 50
info@cpk-automotive.com
www.cpk-automotive.com

Great Britain

Heinzmann UK Ltd.

Middlesbrough
Phone: +44 1 642 467 484
info@heinzmannuk.com
www.heinzmann-turbine-controls.com

Regulateurs Europa Ltd.

Colchester, Essex
Phone: +44 1206 799 556
sales@regulateurseuropa.com
www.regulateurseuropa.com

India

Heinzmann India Private Ltd.

Pune
Phone: +91 98 22069508
s.jog@heinzmann.in

Korea

Heinzmann / Regulateurs Europa Korea Pte. Ltd.

Ulsan
Phone: +82 52 227 7673
heinzmann@korea.com

The Netherlands

Regulateurs Europa B.V.

Roden
Phone: +31 5050 19888
sales@regulateurs-europa.com
www.regulateurseuropa.com

Norway

Heinzmann Automation AS

Narvik
Phone: +47 769 610 80
post@heinzmann.no
www.heinzmann.no

South Africa

Heinzmann

Stellenbosch
Phone: +27 82 6898100
diemont@worldonline.co.za

Ukraine

Heinzmann / Regulateurs Europa

Kiev
Phone: +38 44 331 96 75
hzm-kiev@hzm.com.ua

USA

Heinzmann / Regulateurs Europa America Inc.

Fort Collins, CO
Phone: +1 970 484 1863
info.usa@heinzmann.com

Head Office

Germany Heinzmann GmbH & Co. KG

Schönau
Phone: +49 7673 8208 0
info@heinzmann.de
www.heinzmann.com



Further representations: www.heinzmann.com/representations

www.heinzmann.com