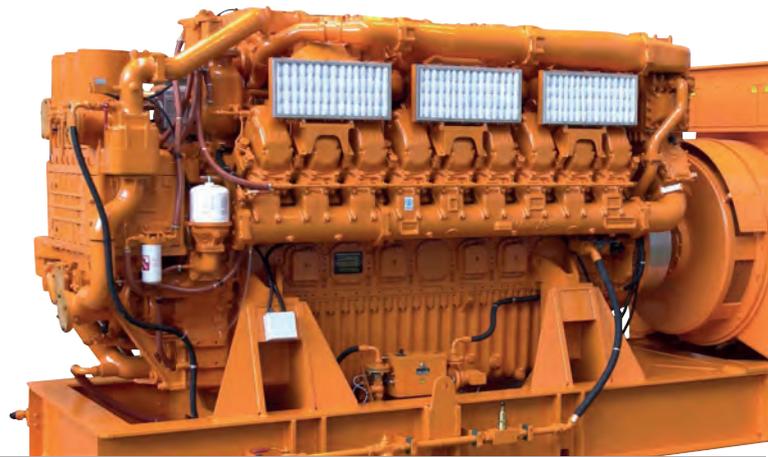


THESEUS

Digital Genset Management



THESEUS Control Unit



PANOPTES HMI



ARGOS HMI



*Control Cabinet for
Generator Management*



*Analogue Load
Sharing Interface*

- ✓ Suits all engine sizes
- ✓ For island and mains-parallel operation
- ✓ Compatible with engines and governors from all manufacturers
- ✓ Marine-classified

THESEUS

Genset management

HEINZMANN's digital genset controller THESEUS DGM-02 is an all-rounder. Whether in island or mains-parallel operation, single genset or group, there is an appropriate version for every application which, in conjunction with the HMI ARGOS or PANOPTES, provides a comfortable and user-friendly system. All THESEUS control units are marine-classified.

THESEUS DGM-02 is available in four main variants: BASIC, MEDIUM, EXTENDED and GROUP. Each of these has a predetermined range of functions and communication interfaces suitable for user configuration via the powerful DcDesk 2000 communication software. All but the BASIC variant also allow custom-engineered solutions to meet specific needs.

Further optional enhancements such as Modbus, for interfacing to external PLC/SCADA packages as well as the PANOPTES touch-screen HMI, and integral speed governor, for interfacing with most standard positioner electronics, make THESEUS DGM-02 the complete generator management solution.

THESEUS Benefits

THESEUS standard functions

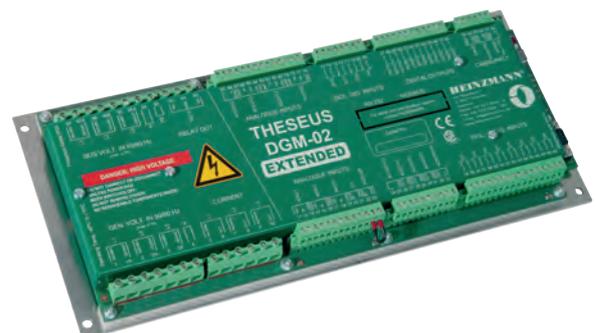
- ✓ **Synchronising**
- ✓ **kW load control**
- ✓ **kW load sharing**
- ✓ **PC based adjustment & monitoring**
- ✓ **Voltage-matching**
- ✓ **PF control**
- ✓ **kVAr load sharing**
- ✓ **Genset protection**
- ✓ **Automatic sequencing**
- ✓ **CAN communication**
- ✓ **Real time alarm/data log**

Options

- ✓ **Integrated speed governor**
- ✓ **Modbus**
- ✓ **Support of MTU governors via SAE J1939 Smart Connect SAM advanced**

Accessories

- ✓ **Interface with existing analogue load sharing**
- ✓ **Different HMIs**



THESEUS FUNCTIONALITY

With three generations of experience in the power generation market, HEINZMANN as an expert for digital generator management, offers the DGM-02 as flagship of a range of genset controls.

Apart from standard functions for generator applications, DGM-02 provides a selection of additional features for complete genset control and management as well as different options of operator interfaces.



THESEUS VERSIONS

The THESEUS variants offer high flexibility to the user and make the system suit all engine sizes.

THESEUS provides two types of digital management units:

Digital generator management

THESEUS EXTENDED



High voltage genset

- Variable connections
- Variable functions
- High customisation

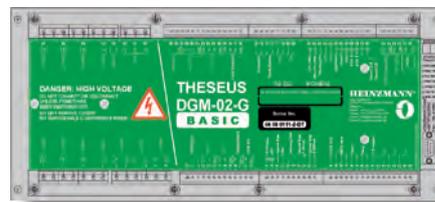
THESEUS MEDIUM



Low voltage genset

- Variable connections
- Variable functions
- Some customisation

THESEUS BASIC



Low voltage genset

- Economic solution
- No customisation

Digital mains feeder or bus tie management

THESEUS GROUP



Low and high voltage applications

- Group to group control
- Gensets to mains
- Peak shaving
- kW load sharing
- Import/export control
- kVAr load sharing
- High customisation
- AMF
- Soft load transfer

HEINZMANN GENSET MANAGEMENT SYSTEM COMPONENTS

- ✓ **THESEUS Genset Controller**
- ✓ **Different options of HMIs (PANOPTES, ARGOS)**
- ✓ **Analogue load sharing option**
- ✓ **Local & remote adjustment and monitoring (DcDesk 2000)**
- ✓ **Sensors**
- ✓ **Full range of compatible speed governors and actuators available**
- ✓ **Worldwide competent service**

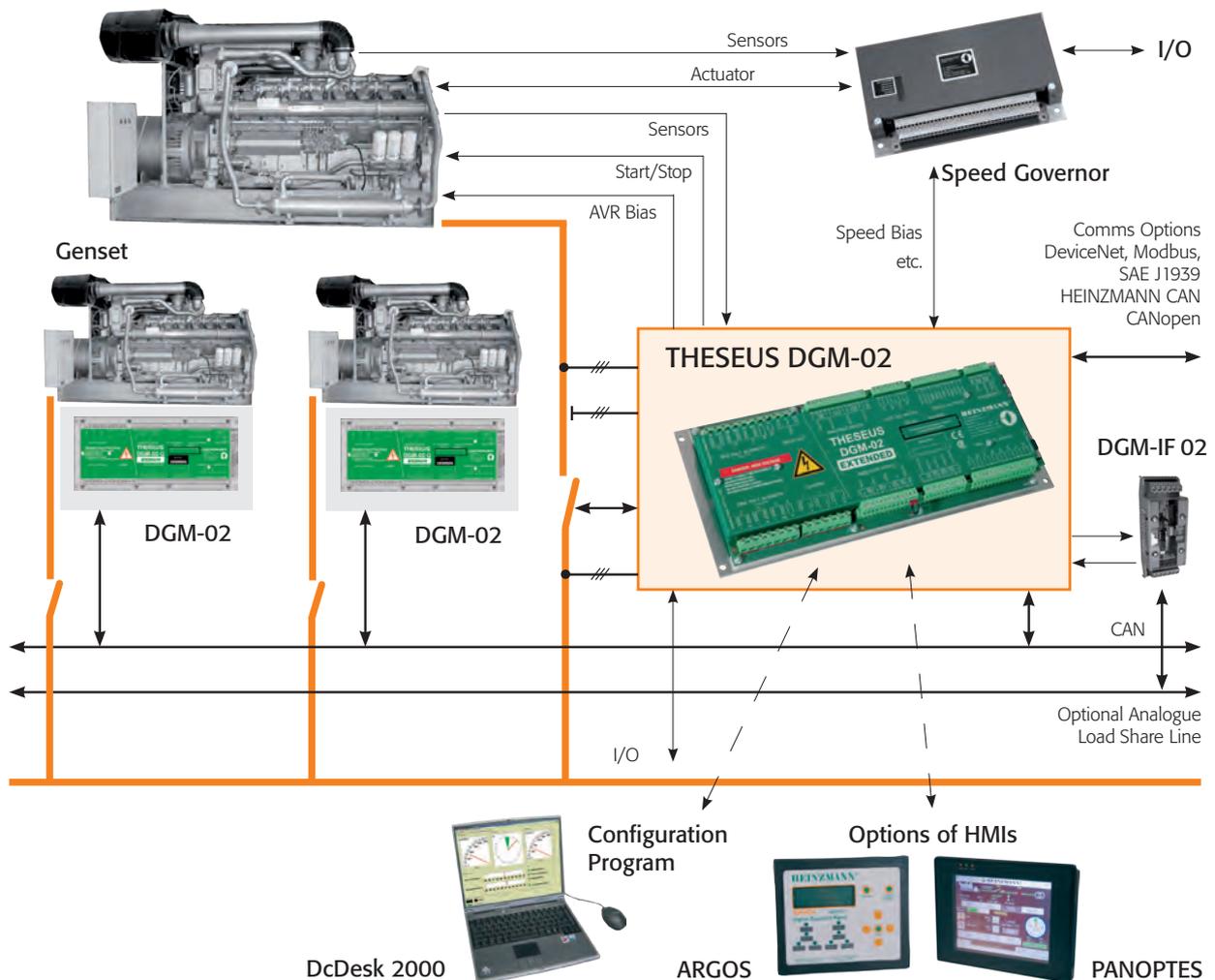
Flexible

Of course you can use the THESEUS DGM-02 for its main functions only. However, a lot of additional functions are already available in the standard software and can easily be activated by parametric setting.

This makes THESEUS DGM-02 fit perfectly for retrofits as well as for new installations, no matter what size of engine.

Customer oriented

In conjunction with a wide range of HEINZMANN products, THESEUS DGM-02 is at the heart of many reliable complete genset management solutions. With our highly esteemed DcDesk 2000 and customisable HMIs, the DGM-02 control unit is easy to set up and easy to operate.



THESEUS reliability

The HEINZMANN THESEUS DGM-02 and its predecessor DGM-01 have been proven to provide accurate and reliable control to many customers.

From a simple utility backup in the range of a few 10 kW to highly sophisticated installations of more than 10 MW per engine, land based, off-shore or marine, retrofit or new installation, combined with HEINZMANN speed governors or not, the THESEUS DGM-02 satisfies manifold requirements.

Technical information

Voltage inputs	3 Phase 240 ... 480 VAC (Phase/Phase) ± 10 %
or	3 Phase 100 ... 240 VAC (Phase/Phase) ± 10 %
Current inputs	3 Phase 0 ... 5 A
or	3 Phase 0 ... 1 A
Frequency	45 ... 65 Hz
Power supply	24 VDC (9 ... 33 VDC)
Ambient temperature	-40 ... +70 °C (Storage: -40 ... +85 °C)
Humidity	Up to 70 %
Dimensions (WxHxD)	414.5 x 185.0 x 45.1 mm/ 16.32 x 7.28 x 1.78"
Weight	Approx. 2,500 g / 5.5 lbs
Protection grade	IP00
Marine certifications	DNV A-13157 LP 07/20036

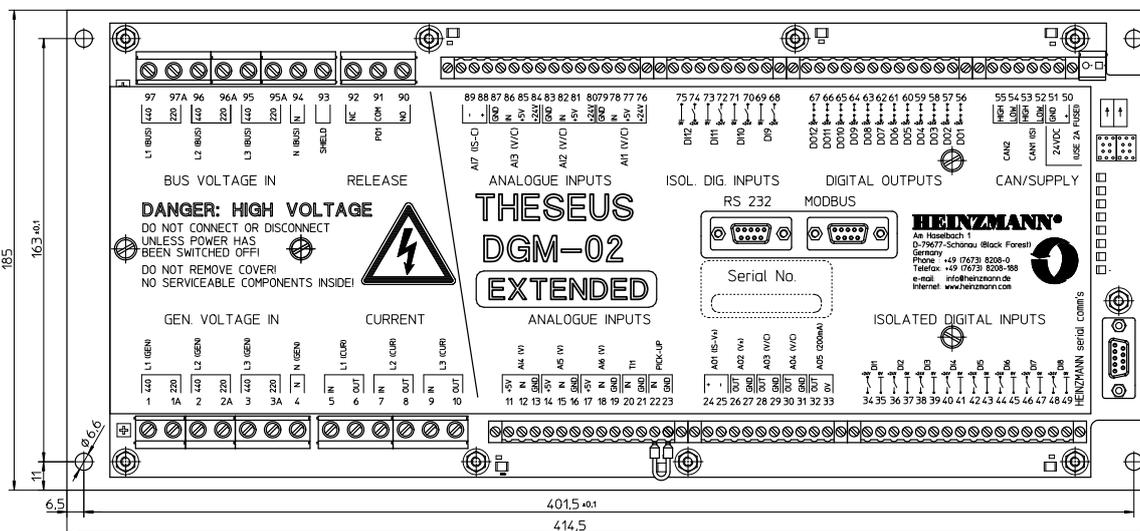
For further information please refer to the THESEUS Manual

Selection of installed systems

- **Gold mines in Africa:** island generation up to 40 MW partly with DARDANOS EFI
- **Local supply in the Caribbean:** island generation with DARDANOS EFI
- **Floating tanks in Spain and the UK:** off-shore supply for floating units and platforms
- **Dredger:** marine power generation with pitch dependent load limit
- **Yachts in USA:** marine power generation with shore synchronisation
- **Military installation in the UK:** Military generation with redundant CAN for load sharing
- **Data centres in Sweden and the UK:** standard mains backup and mains backup with sophisticated feeder connection (4 x GROUP)
- **Sewage works in Germany:** mains backup and export with dual fuel and re-synchronisation
- **Oil drilling applications worldwide:** land-based, off-shore and marine power for oil drilling and processing



Dimensions (same for all versions)





Head Office:

Heinzmann GmbH & Co. KG

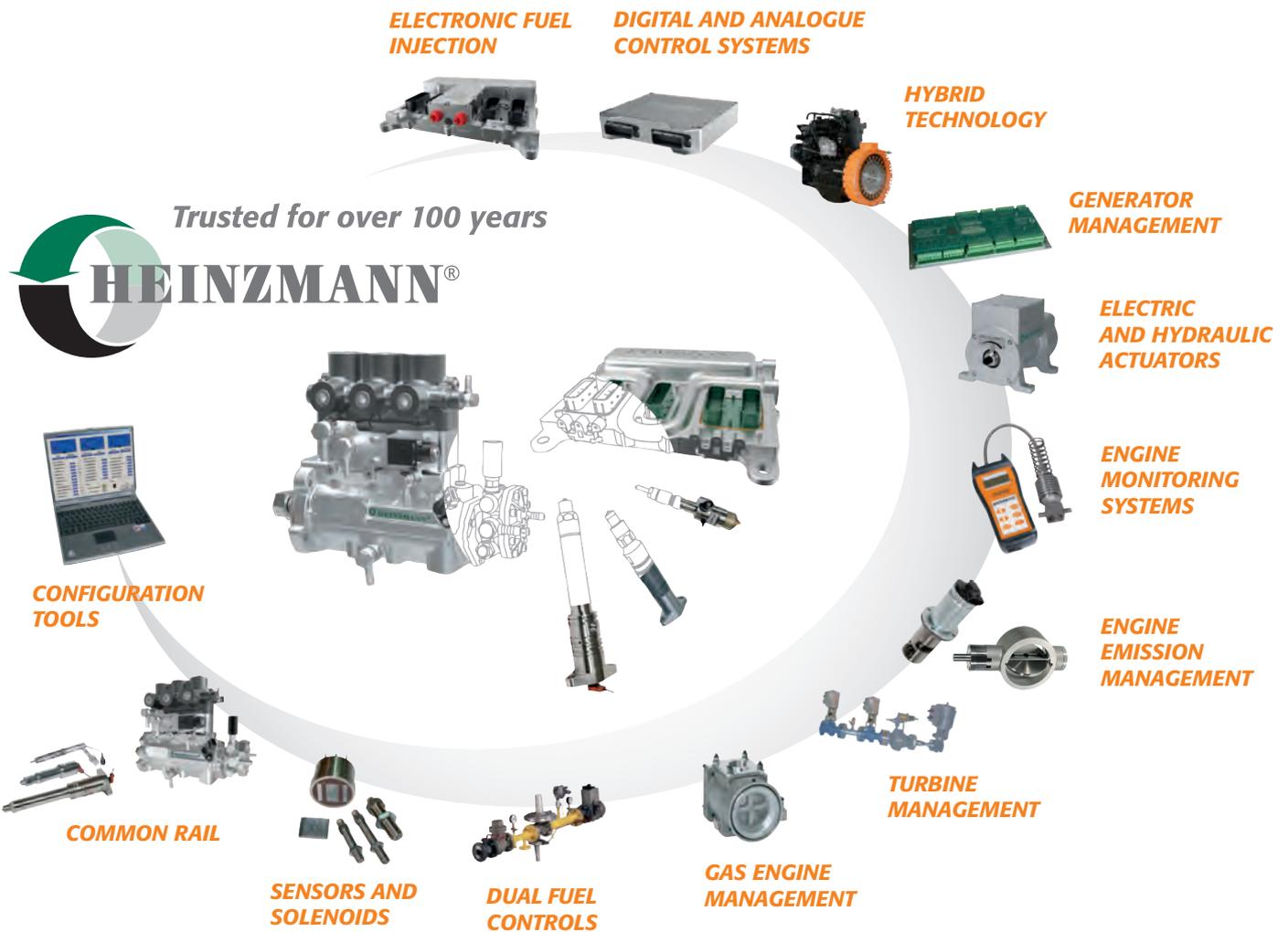
Am Haselbach 1

D-79677 Schönau/Germany

Phone: +49 7673 8208 - 0

Fax: +49 7673 8208 - 188

Email: info@heinzmann.de



Quality & Precision since 1897



www.heinzmann.com