

THESEUS

Digital Generator Management DGM-02



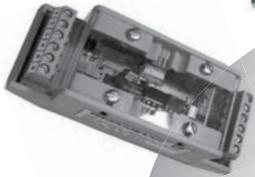
THESEUS
Generator Management
Control



ARGOS
HMI



PANOPTES
HMI



DGM-IF 01
Analogue
Load
Sharing



DcDesk 2000
Configuration
Program



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



THESEUS

Generator management

HEINZMANN's digital generator management control unit 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

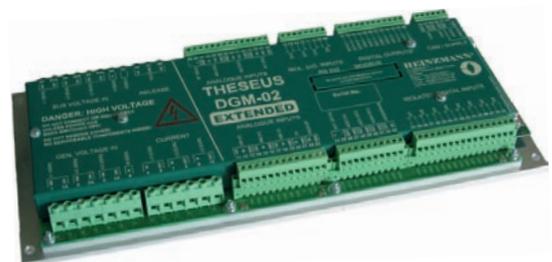
- ✓ **Synchronising**
- ✓ **kW load control**
- ✓ **kW load sharing**
- ✓ **PC based adjustment & monitoring**
- ✓ **Voltage-matching**
- ✓ **PF control**
- ✓ **kVAr load sharing**
- ✓ **Genset protection**
- ✓ **Automatic sequencing**
- ✓ **CAN communication**
- ✓ **Real time alarm/data log**

Options

- ✓ **Modbus or SAE J1939**
- ✓ **Integrated speed governor**

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 the 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.



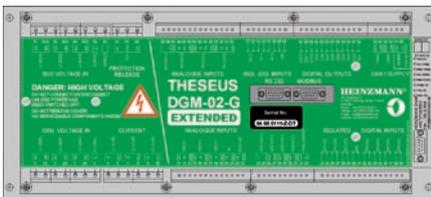
THESEUS VERSIONS

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:

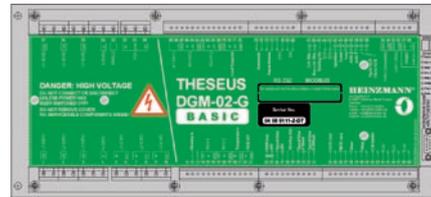
Digital generator management

THESEUS extended



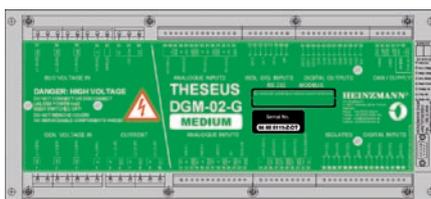
- High Voltage Genset
- Variable connections
- Variable functions
- High customisation

THESEUS basic



- Low Voltage Genset
- Economic solution
- No customisation

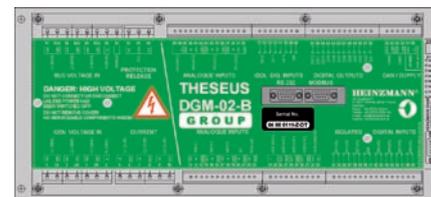
THESEUS medium



- Low Voltage Genset
- Variable connections
- Variable functions
- Some 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 GENERATOR MANAGEMENT SYSTEM COMPONENTS

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

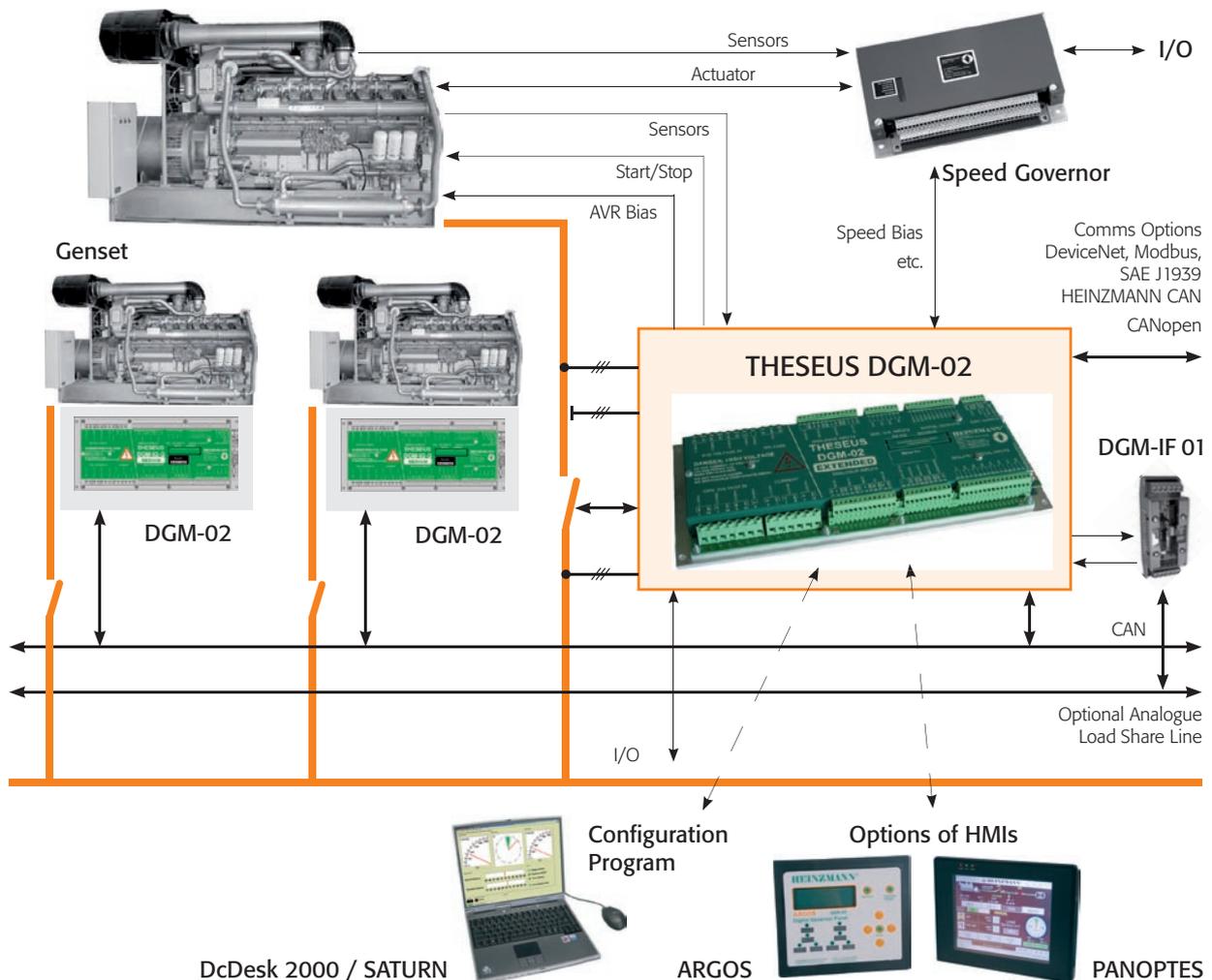
Modular and flexible

You can of course use the THESEUS DGM-02 for its main functions only. Several of its components are add-on modules, which can be combined according to your specific needs.

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 customizable 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 10kW 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 or	3 Phase 240 ... 480 Vac (Phase/Phase) ± 10 % 3 Phase 100 ... 240 Vac (Phase/Phase) ± 10 %
Current inputs or	3 Phase 0 ... 5 A 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	IP 00

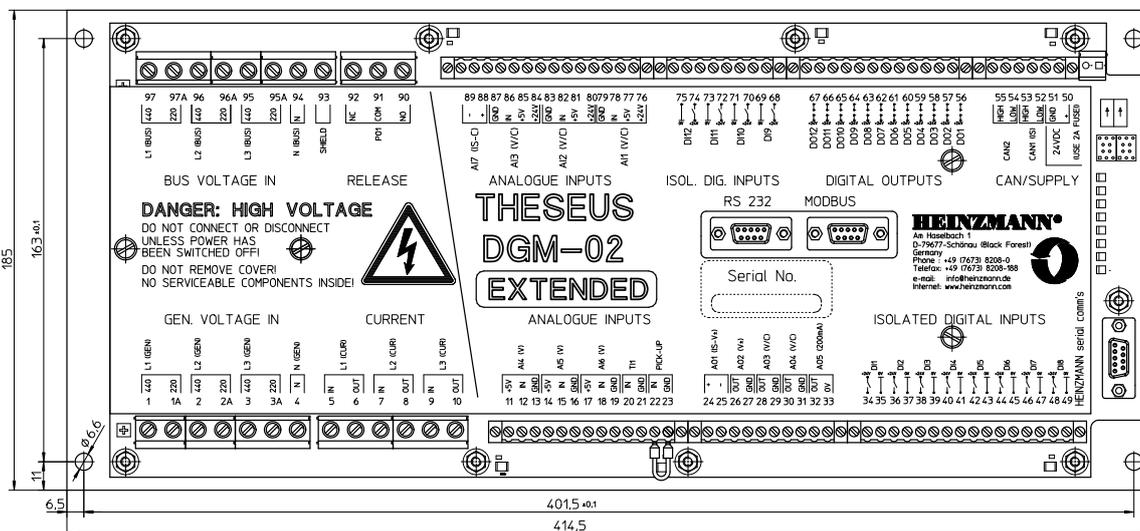
For further information please refer to the THESEUS Manual

Selection of installed systems

- **Gold mines in Africa:** island generation up to 40MW partly with DARDANOS EFI
- **Local supply in the Caribbean:** island generation with DARDANOS EFI
- **Floating tanks in Spain and the United Kingdom:** off-Shore supply for floating units and platforms
- **Dredger:** marine power generation with pitch dependent load limit
- **Yachts in the United States:** marine power generation with shore synchronization
- **Military installation in the United Kingdom:** Military generation with redundant CAN for load sharing
- **Data centers in Sweden and the United Kingdom:** 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-synchronization
- **Oil drilling applications worldwide:** land-based, off-shore and marine power for oil drilling and processing



Dimensions (same for all versions)



**Marine
Classified**



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Selection of HEINZMANN products

Wide range of digital and analogue control units



Different sizes of electrical actuators for 1 Nm up to 500 Nm



Electronic Fuel Injection control system (EFI) - control units from 4-cyl. up to 20-cyl. engines



Range of analogue and digital generator management units



Gas engine management



Common Rail systems



Sensors & solenoids



Digital control systems for gas turbines



Hydraulic governors & actuators



Electric components of hybrid drive systems



Quality & Precision since 1897



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