



*-power in control*

**EXCELLENCE IN POWER GENERATION CONTROL SYSTEMS**

## **Automatic Controller AGC-4 Steam**

Micro processed and robust for Turbo Generators



# Automatic Genset Controller, AGC-4 Steam

Micro Processed and Robust for Turbo Generators

*A controller that meets all needs & applications*

The control unit AGC-4 contains all the necessary functions for protection and control of a Turbo Generator, from simple installation to complex power plants. The applied technology is based on products which have passed strict marine approval procedures testing product robustness, reliability and durability. Therefore, the AGC-4 is fully operational in temperatures ranging from -25 to +70 degrees Celsius.



## Flexibility – Part of the Design

The flexibility of the AGC-4 allows operation in all control modes. The module is also capable of controlling a plant with up to 56 breakers. The whole system can handle 16 generators, 8 bus couplers, 16 tie breakers and 16 mains breakers. The functionality of the AGC-4 is based on options, so you will never pay for features you do not need. The operation mode can be changed on the site very easily by the user without changing the programming.

The software and hardware were developed in an integrated manner making all applications of the AGC-4 as simple as possible. The operation modes can be changed via the front control panel or via software, through a remote command with Profibus/Modbus, through an input or an AOP remote panel. The frequency 50 Hz or 60 Hz or operating voltage can also be changed through an input.

## Free Software

During commissioning as well as in daily operation you will find the free PC software a valuable tool. It provides you with the following advantages:

- Plant overview – a graphic presentation of your application presenting breaker status, main readings of the AGC-4, etc.
  - Up-/download of set-points – using your PC software you can change the settings and functions of your AGC-4 in an easy and logical way.
- As a precautionary measure, AGC-4 has three level of password protection.
- Trending – a customisable log of analogue values (voltages, current, power, etc.). If further data treatment is needed, it is possible to export data to Excel.
  - Alarm History – instant overview of alarms, including time indication. For the further analysis 20 different values are stored for each entry.

## Communication

The AGC-4 can support several serial communication protocols such as Modbus, Profibus, Ethernet IP, or TCP/IP. This means that your generator is never further away than your closest internet connection.

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## AGC-4 Steam Features

- ✓ Active load control kW
- ✓ Reactive load control kVAR/PF
- ✓ Automatic and safe synchronisation
- ✓ Alarm events with 150 alarms log
- ✓ Generator, utility and bus tie protections
- ✓ Export control multi mains (summation CT)
- ✓ Up to 690V measurement without potential transformer
- ✓ Redundant CAN communication between modules

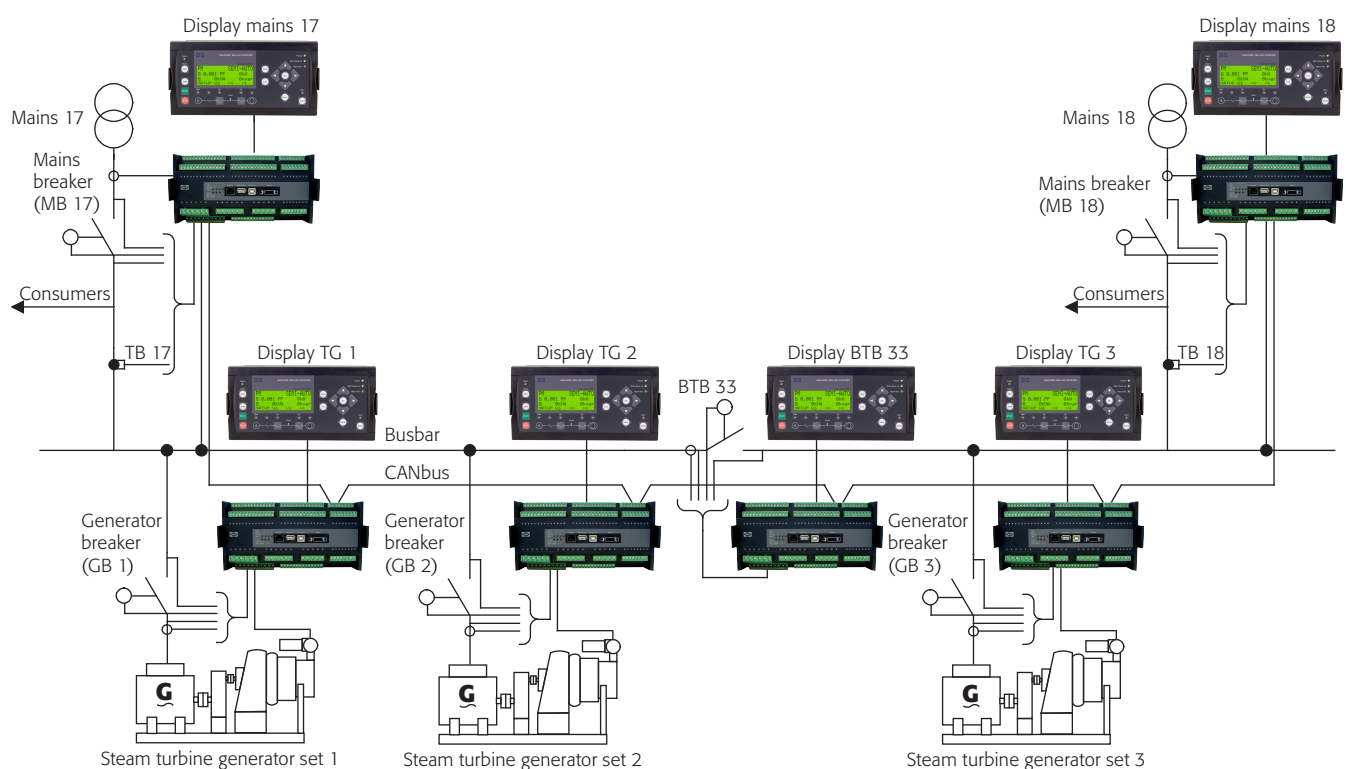
## AGC-4 Steam Single Turbo Generator

- ✓ Single controller for mains & generator breaker synchronisation
- ✓ Fixed power/base load
- ✓ Soft load transfer
- ✓ Back pressure control

## AGC-4 Steam Power Management

- ✓ Options load sharing digital and analog
- ✓ Sharing of active and reactive Load
- ✓ Parallel operation with the Mains (reverse synchronisation)
- ✓ Base load of any TG in load sharing

## AGC-4 Steam Application Example



DEIF is a market leader with a proven record of more than 80 years of technological achievement and innovation in engine & genset controls, marine bridge instrumentation, switchboard instrumentation and renewable energy controls.

Our goal is to always bring a competitive edge to our customers' businesses by providing green, safe and reliable product lines with flexible features and first class service and support.

The DEIF Group is committed to maintaining and expanding its position as a trusted global supplier of quality solutions.



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## POWER & CONTROL TECHNOLOGY: STEAM CONTROL TECHNOLOGY

