



Features

Wide range of advanced protection and control

Island or parallel operation, automatic mains failure, peak shaving, load takeover, mains power export and remote maintenance.

Remote control

TC/IP, RS-485, USB, and Profibus interface.

- **Touchscreen integration**

- Seamless integration with TDU.
- Simple and fast to use.



See our range of TDUs for the AGC-4 Mk II at www.deif.com/products/tdu-series.

Power management

- **Built-in redundancy**

- Decide how many assets should be running for a given load
- Busbar section control

- **Core power management**

- Control up to 40 assets.

- **Extended power management**

- Group assets and control up to 32 groups and 992 assets, or 32 mains.

- **Hybrid applications**

- Maximise sustainable power penetration

Emulation

Full testing of the power management system

Perform a complete test of your power management system without risking damage to equipment.

Standard feature

Emulation is a standard feature of the controller.

Rental applications

Designed for safe and simple operation

- Simply swap between preset configurations with a single tap on the touchscreen.
- Set and lock all parameters for full protection of your asset.
- EasyConnect
 - The controller automatically detects and aligns assets.

About AGC-4 Mk II

Ideal for greenfield and brownfield applications

The AGC-4 Mk II can be used as a single asset controller or with many other controllers for a complete power management system for mission-critical, hybrid and rental applications.

Benefits

- Control gensets, mains connections and BTBs
- Control PV and battery power
- Use practically anywhere in the world
- Backup power in only six seconds
- Full protection
- Robust design with galvanic separation
- Built-in redundancy
- Free utility software

Global controller

- **Complies with grid regulations**

- IEEE 1547, VDE 4105, EN50549-1/2, ENA G99 and many more.

Highly integrable

Combine with AGC-4, AGC 150, ASC-150, ASC-4, ALC-4 and iE 250 controllers.

Delivers backup power in only six seconds

- **Mission-critical applications**

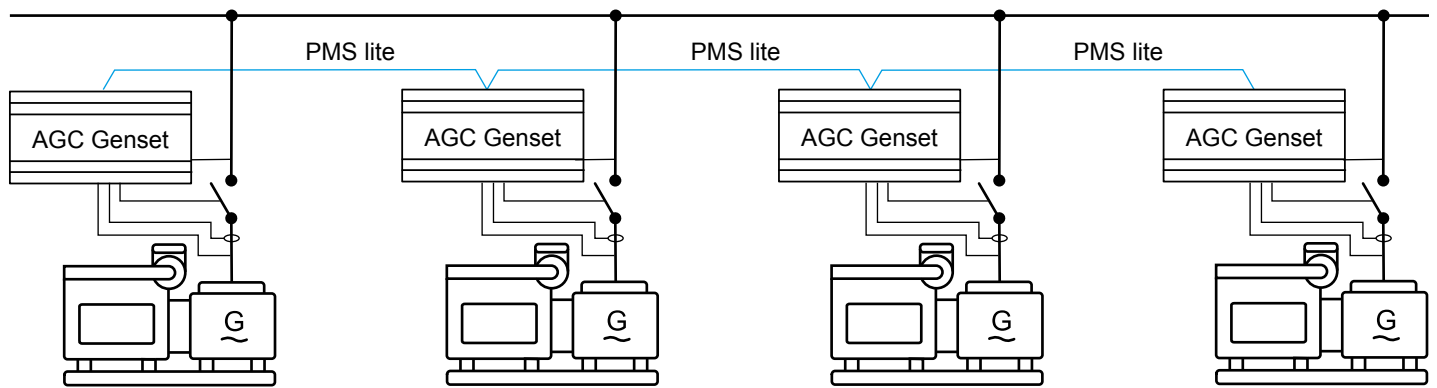
- Hospitals, data centres, industry and manufacturing, telecommunications and transportation infrastructure, emergency response centres and many more.

Tier 4/Stage V compliance

- **Extensive engine control**

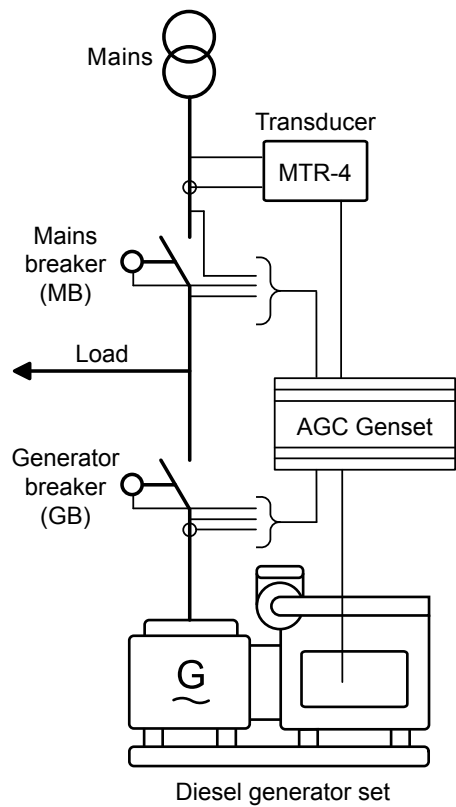
- The AGC-4 Mk II supports a huge, and growing number of commonly used engine protocols.
- Meets Tier 4 Final/Stage V emission requirements.

Power management



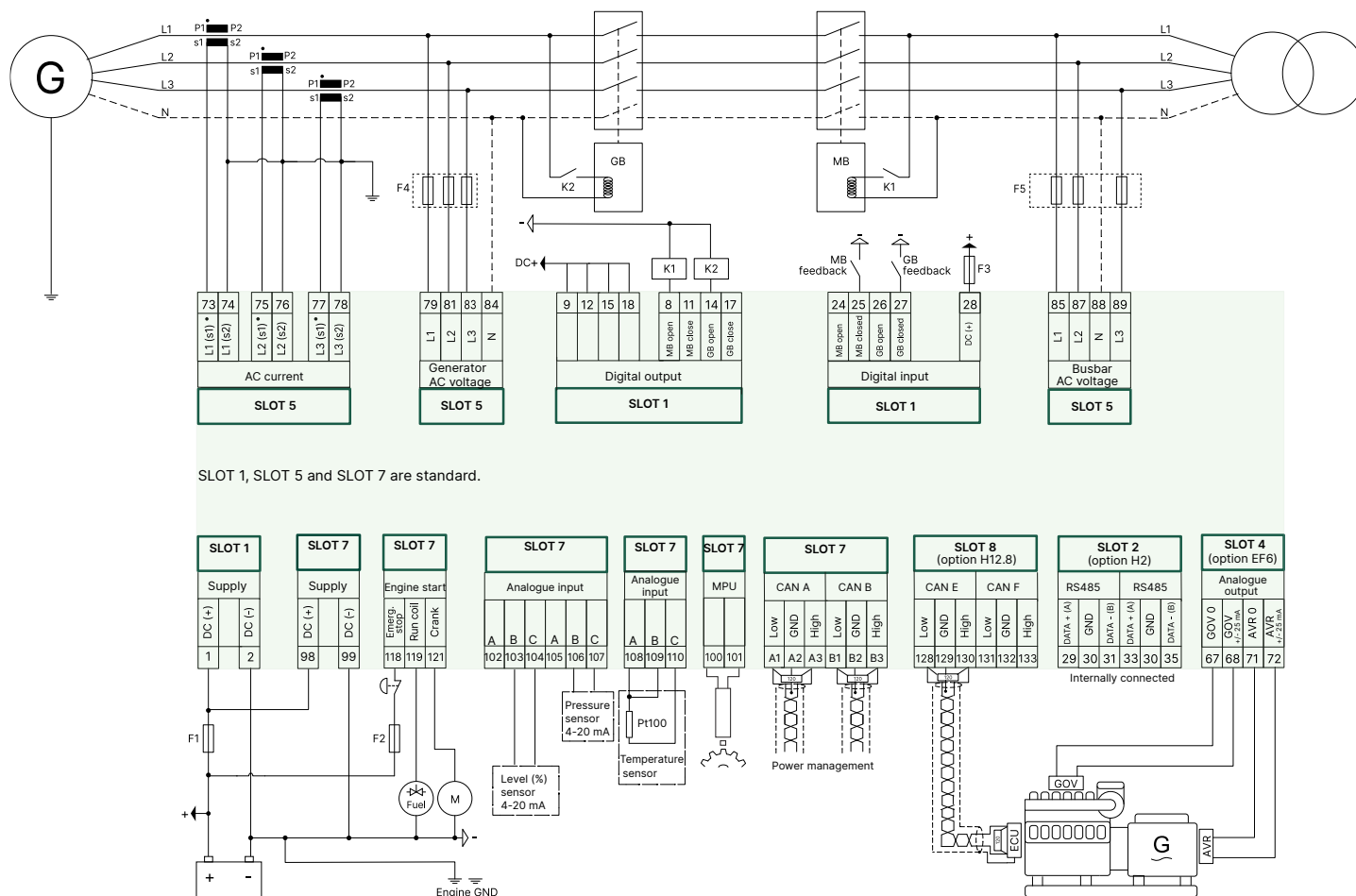
PMS lite, with up to 127 gensets

Single controller



Peak shaving, load takeover and/or mains power export

Typical wiring for generator controller



Communication

- TCP/IP
- CAN bus
 - Power management communication
 - Engine communication
 - CANshare load share
 - DVCs, CIOs and IOMs
 - AOP-2
- Modbus server or Profibus
- USB interface to PC

Approvals

- CE
- UL
- cUL Listed to UL/ULC6200:2019 1.ed



More information

See www.deif.com for the most recent approvals

AC measurements

Voltage measurements

Nominal 100 to 690 V AC

Current measurements

Nominal 1 A to 5 A for current transformer

Frequency

Nominal 50 or 60 Hz

Magnetic pickup

2 to 70 V AC, 10 Hz to 10 kHz

Power supply

- Nominal voltage: 12/24 V DC
- Operating range: 8 to 32 V DC

Environment

- Operating temp.: -25 to +70°C (-13 to +158°F)
- Storage temp.: -40 to +70 °C (-40 to +158 °F)
- Humidity: 97 % RH to IEC 60068-2-30
- Protection: IP20 (controller), IP40 (DU-2 display), IP54 (display with gasket)
- Materials: All plastic materials are self-extinguishing according to UL94 (V1)
- Pollution degree 2

Inputs and outputs

- Digital inputs: 12
- Relay outputs: 4
- Digital outputs: 2
- Analogue inputs: 3

The number of inputs and outputs depends on the configuration of the controller. The above is the minimum amount. See the [AGC-4 Mk II Data sheet](#) for details.

Dimensions and weight

Dimensions: 230 x 165 x 119 mm (9.06 x 6.49 x 4.67 in)

Weight: 1.6 kg (3.5 lbs)

Protections

2 x Reverse power..... ANSI 32R

2 x Short circuit	ANSI 50/50TD
4 x Over-current.....	ANSI 50TD
1 x Voltage-dependent over-current.....	ANSI 50V
2 x Over-voltage.....	ANSI 59
3 x Under-voltage.....	ANSI 27
3 x Over-frequency.....	ANSI 81O
3 x Under-frequency.....	ANSI 81U
1 x Unbalanced voltage.....	ANSI 47
1 x Unbalanced current.....	ANSI 46
1 x Inverse time over-current	ANSI 51
1 x Under-excitation or var import.....	ANSI 40U
1 x Over-excitation or var export.....	ANSI 40O
5 x Overload.....	ANSI 32
3 x Load shedding.....	
3 x Busbar/mains over-voltage.....	ANSI 59
4 x Busbar/mains under-voltage.....	ANSI 27
3 x Busbar/mains over-frequency.....	ANSI 81O
1 x Emergency stop.....	
2 x Overspeed.....	ANSI 12
1 x Low auxiliary supply.....	ANSI 27DC
1 x High auxiliary supply.....	ANSI 59DC
1 for each breaker external trip.....	
Synchronisation failure.....	
Breaker open failure.....	ANSI 52BF
Breaker close failure.....	ANSI 52BF
Breaker position failure.....	ANSI 52BF
1 x Close before excitation failure.....	
1 x Phase sequence error	ANSI 47
1 x Deload error.....	
1 x Crank failure.....	ANSI 48
1 x Running feedback error.....	
1 x Start failure.....	ANSI 48
1 x Hz/V failure.....	
1 x Stop failure	
1 x Stop coil, wire break alarms	
1 x Not in Auto	

For the complete list of protections, see the [AGC-4 Mk II data sheet](#).

For more information:

DEIF A/S

Frisenborgvej 33, 7800 Skive, Denmark

Tel.: +45 9614 9614, info@deif.com

www.deif.com

