



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

TCP/IP, CAN bus, and USB.

• 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

• 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 connections.

• Hybrid applications

- Maximise sustainable power penetration

• Reliable power supply

- Parameters for extra assets to run
- Busbar section control

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

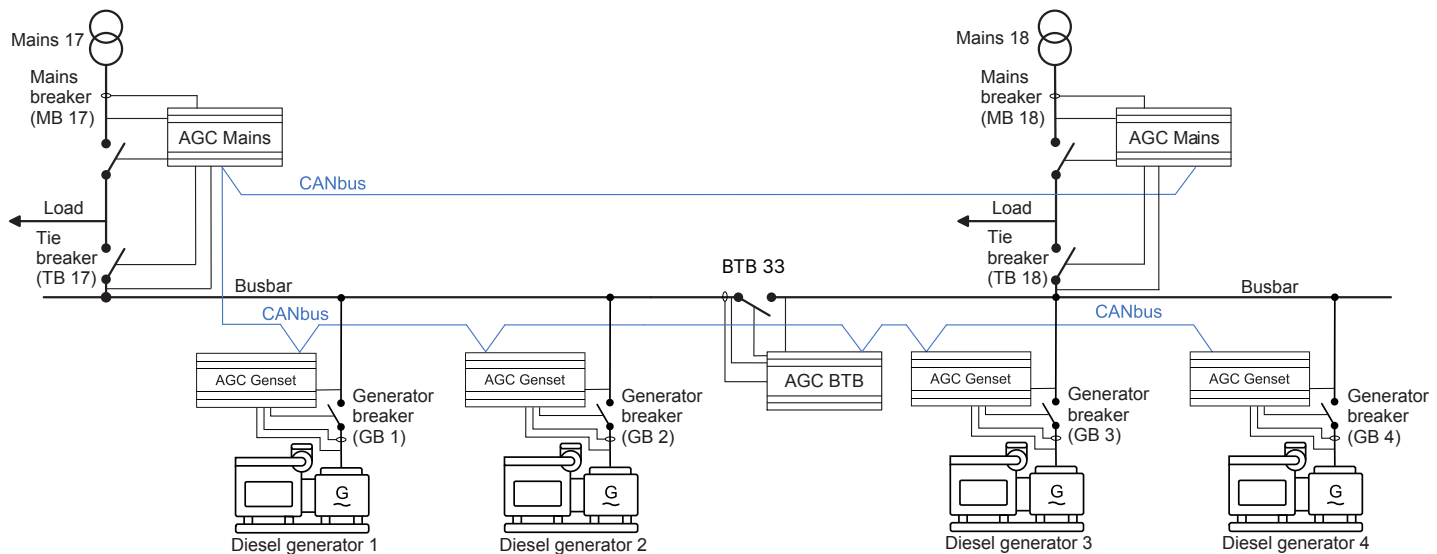
Delivers backup power in only six seconds

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

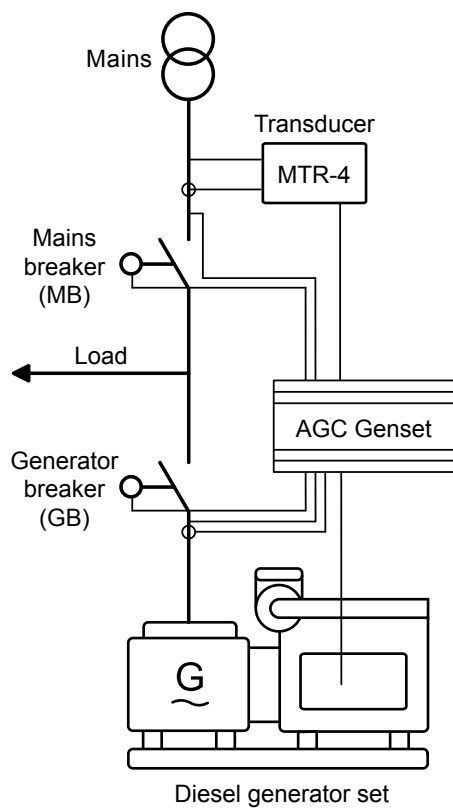
Tier 4/Stage V compliance

- **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

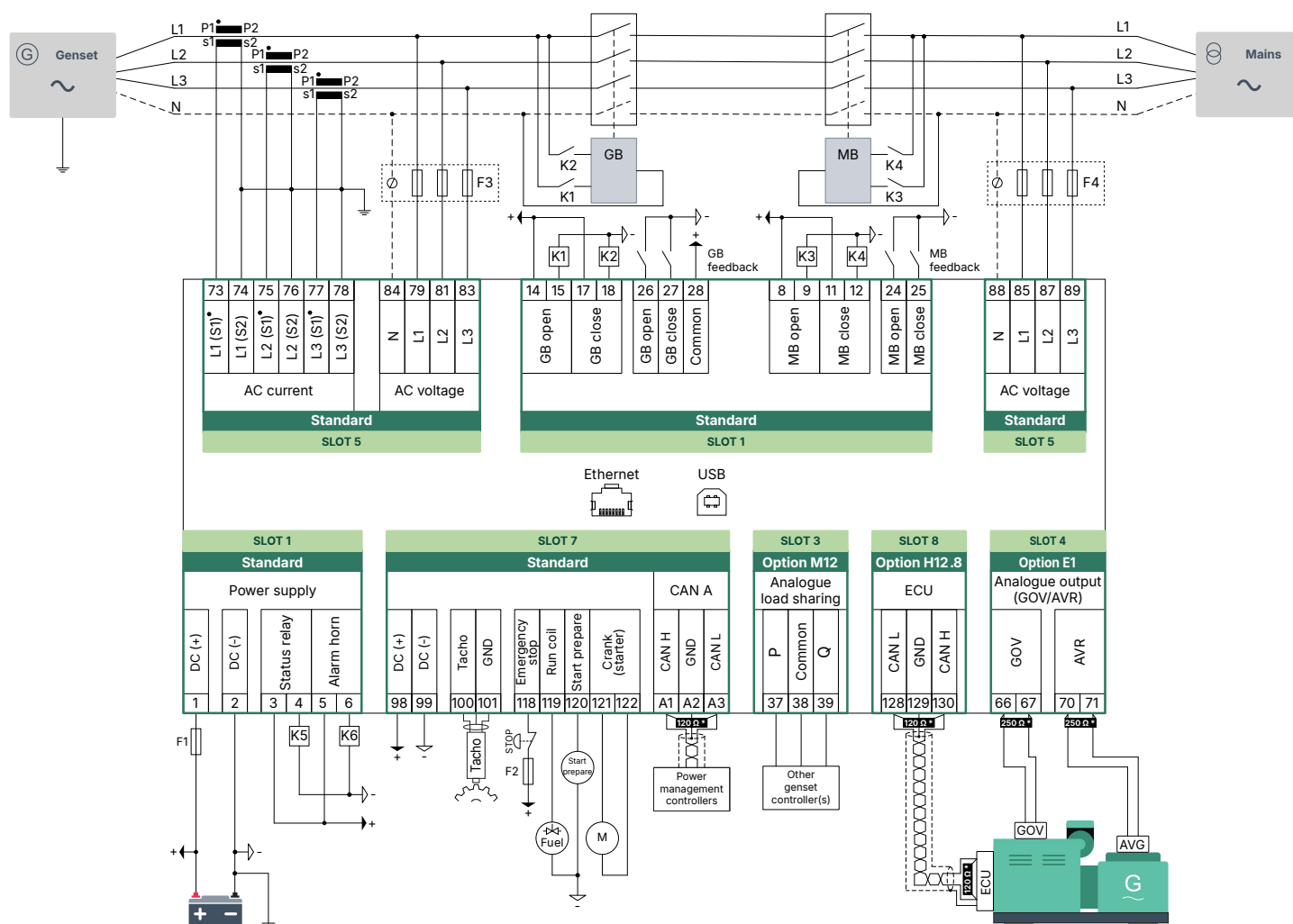


Single genset controller



Peak shaving, load takeover and/or mains power export

Typical wiring for generator controller



Communication

- TCP/IP
 - Modbus and Profibus server
- CAN bus
 - Power management communication
 - Engine communication, PMS lite
 - DVCs, CIOs and IOMs
 - Additional operator panel(s) (AOP-2)
 - Digital load sharing (CANshare)
 - Third party load sharing
- USB interface to PC

Approvals

- CE
- UL
- UL/cUL Listed to - UL/ULC6200:2019 1.ed.
Controllers for Use in Power Production



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 or 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

These are the minimum numbers. The number of inputs and outputs depends on the configuration of the controller.

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 Over-voltage.....	ANSI 59P
3 x Under-voltage.....	ANSI 27P
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 Under-excitation or var import.....	ANSI 32RV
1 x Over-excitation or var export.....	ANSI 32FV
4 x Over-current.....	ANSI 51
1 x Voltage-dependent over-current.....	ANSI 50V
2 x Reverse power.....	ANSI 32R
2 x Fast over-current (Short circuit).....	ANSI 50P
1 x IEC/IEEE inverse time over-current	ANSI 51
5 x Directional over-current.....	ANSI 46I
1 x Negative sequence current.....	ANSI 67 ₂
1 x Negative sequence voltage.....	ANSI 47
1 x Zero sequence current.....	ANSI 50I ₀
1 x Zero sequence voltage.....	ANSI 59U ₀
3 x Busbar/mains over-voltage.....	ANSI 59P
4 x Busbar/mains under-voltage.....	ANSI 27P
4 x Busbar/mains over-frequency.....	ANSI 81O
5 x Busbar/mains under-frequency.....	ANSI 81U
2 x Reverse power.....	ANSI 31R
5 x Overload.....	ANSI 32F
1 x Phase sequence error.....	ANSI 47
3 x Load shedding via current.....	ANSI 51
3 x Load shedding via busbar frequency.....	ANSI 81
3 x Load shedding via overload.....	ANSI 32
3 x Load shedding via fast overload.....	ANSI 32
1 x Low auxiliary supply.....	ANSI 27DC
1 x High auxiliary supply.....	ANSI 59DC
Breaker open/close/position failure.....	ANSI 52BF
1 x Power-dependent reactive power.....	ANSI 40
2 x Overspeed.....	ANSI 12
1 x Crank failure.....	ANSI 48
1 x Start failure.....	ANSI 48
1 x Engine heater.....	ANSI 26

1 x Emergency stop
1 x Breaker external trip (for each breaker)
1 x Synchronisation failure alarms (for each breaker)
1 x Not in Auto
1 x Close before excitation failure
1 x Deload error
1 x Running feedback error
1 x Hz/V failure
1 x Stop failure
1 x Stop coil, wire break alarms

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

For more information:

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