



Product Change Notification: DSE8610 MKII

Part No: 8610-02



DSE8610 MKII

Related Products	Description	Part Number
Module Gasket	Rubber Gasket Seal for Module Front Panel	020-564
DSE890 MKII	DSEWebNet® / IoT Gateway 4G / Ethernet	0890-04
DSE8620 MKII	Auto Mains (Utility) Failure Controller	8620-02
DSE8660 MKII	ATS / Mains (Utility) Controller	8660-02
DSE2610	Remote Display Module	2610-01

New Features

Release Date: 26.06.24- v7.10	
Added Feature	Feature Explanation
Continuous improvements.	Improve operating efficiencies.
Release Date: 16.05.24- v7.9	
Added Feature	Feature Explanation
PLC lock editing PIN	Provides the user the ability to lock PLC programs created within the DSE SCADA software behind a PIN code to protect against unauthorised changes being made whilst the product is in use in the field.
Release Date: 13.10.22- v7.8	
Added Feature	Feature Explanation
Added generator phase rotation delay for dead bus synchronising	Continuous improvement.
Safety on delay timer range increased to 0s to 1m	Increased delay timer range for improved flexibility.
Added additional secondary emergency stop digital input function	Provides the ability to stop the generator from a secondary location in an emergency situation.
Release Date: 07.04.22- v7.7	
Added Feature	Feature Explanation
Support for 2610 remote display module	Add a remote display function to the 8610 MKII. The 2610 is a DSE7410 MKII reconfigured for use as a remote display.
Updated support for DSE8003 MKII	Continuous improvement for efficient operation.
PLC improvements	Improved PIN number functionality. A PIN is required to read PLC information, enhancing security. New PLC instrumentation has been added including; number of engine starts, fault ride through count, kWh and kvarh and AVR de-excitation.
G0123 Support	The DSE123 has been replaced by the G0123. Support for the G0123 has been added to be compatible with the DSE86xx MKII controllers.
Release Date: 11.01.22- v7.6	
Added Feature	Feature Explanation
Continuous improvements.	Improve operating efficiencies.



New Features

Release Date: 08.07.21- v7.5	
Added Feature	Feature Explanation
New UL variant added.	8610-U1 released to comply with new UL PDC (Paralleling Device Control) standard. This U1 variant is fixed hardware and cannot be upgraded or rolled back.
Release Date: 15.04.21- v7.4	
Added Feature	Feature Explanation
Improvements to multi-mains operations (8660 MKII)	V7.4 only applicable to 8660 MKII. Not applicable to 8610 MKII.
Release Date: N/A- v7.3	
Added Feature	Feature Explanation
Internal release only	Internal development release. No customer facing changes.
Release Date: 03.02.21- v7.2	
Added Feature	Feature Explanation
Config file read locking	To enhance module security PIN number can be configured to read a configuration file.
Release Date: 22.12.20- v7.1	
Added Feature	Feature Explanation
Updated support for DSE8003 MKII	Continuous improvement for efficient operation.
Release Date: 22.05.20- v7.0	
Added Feature	Feature Explanation
CAN AVR Support	Direct link support from the DSEA108 Digital AVR and DSEA109 Digital AVR to the ECU port on the DSE controller. This replaces the analogue signal, providing greater control and improves safety and efficiency.
Data Transmission	Information can be defined by the user for transmission on the existing MSC link to all DSE8610 MKII and DSE8660 MKII control modules connected to the same bus.
Alternative Load Demand Scheme	Users can choose between the pre V6 load demand scheme and the new enhanced load demand scheme.
Variable Speed Generator Support	Provides enhanced engine speed control for direct and variable control of motor driven equipment.



New Features

Release Date: 13.01.20- v6.1.3	
Added Feature	Feature Explanation
Major enhancements to advanced PLC editor	The PLC editor has been completely redesigned. It has a brand new look and feel and offers enhanced functionality for the user, through the addition of new function blocks. The PLC editor is accessed via DSE configuration suite software. The PLC software now opens within its own operating window. This allows the PLC and configuration suite windows to remain open at the same time.
Load demand scheme improvements	Enhancements to the load demand scheme have been added to improve the capability of working with different sized sets. The scheme is based on the actual power that a set is generating.
De-rate capability	kW and kvar full load ratings in the DSE configuration suite software can now be overridden by GenComm registers. When overridden the system will behave exactly as if the de-rated values were set in the config. Two new instrumentation pages have been added to be visible when either power or var de-rating is enabled.
Ramping scheme improvements	The ability to ramp down to zero power is now available. A new timer has been added that starts when the ramp-down starts. When the timer expires the ramp is terminated to enable the set to be off-load in minimum time.
Display sets on load on modules LCD display	Enhancements have been made to the pages that show the modules MSC link. The modules MSC ID and which sets are on load are now visible.
Power curve simulation	Simulation injection testing has been added to the tools menu in the DSE Configuration Suite Software. This feature allows users to demonstrate power curves.
Configurable engine icons	The engine instrumentation page has been modified so the DTC related icon screen is user configurable. The user has been given the option to define the icons and conditions.
Release Date: 15.10.18 - v5.0.7	
Added Feature	Feature Explanation
Power And Reactive Power Control Response Improvement	Adds a D term to the existing P & I.
Power And Reactive Power Control When In Parallel With The Mains	A separate PID has been added when in parallel with the grid.
Power And Reactive Control Pulse Scheme	The graphical user interface has been moved to a new location within the DSE Configuration Suite Software.
Power And Reactive Control Delay Reduction	This feature has been modified for improved performance with electronic engines.
Power And Reactive Power Control Rate	This feature has been modified for improved performance with electronic engines.
Remote Start On Load Demand	This feature allows the load demand to open the breaker and keep the generator running.
Inhibit Remote Start Of 8610	This feature allows external equipment such as a PLC to control which generators to run.
Number Of Sets On Load	SCADA now shows how many generators are on load. This feature is useful to show how many sets you have on load versus how many you think may be required.

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**New Features**

Release Date: 15.03.18 - v4.1.2	
Added Feature	Feature Explanation
Persistent Governor Output	Provides the ability to instruct the governor drive to reset to zero or maintain the governor drive after closing the breaker in a synchronising/paralleling situation.
Persistent AVR Output	Provides the ability to instruct the AVR drive to reset to zero or maintain the AVR drive after closing the breaker in a synchronising/paralleling situation.
Filter Generator Voltage Display	Enables the control module to display an average generator voltage reading on the display screen in operating environments where the voltage readings are constantly changing.
Filter Bus Voltage Display	Enables the control module to display an average bus voltage reading on the display screen in operating environments where the voltage readings are constantly changing.
Release Date: 23.10.2017 - v 3.0	
Added Feature	Feature Explanation
New power modes for when in parallel with the mains.	Provides the ability to affect the local mains voltage by changing the amount of kvar produced. New regulations (RFG/P1547) require power and var outputs to be varied depending on the frequency and voltage.
Redundant MSC communication wired to CAN ports.	Hot swappable redundant MSC.
True manual breaker control when in manual mode.	The breaker can now be configured to not close automatically based on remote start inputs etc..
Water in fuel digital input.	Triggers an alarm condition if water is detected in the fuel tank.
Fuel tank bund alarm digital input.	Triggers an alarm condition if fuel is present in the overflow fuel tank.
Separate ramp up and ramp down rates configurable via PLC.	Add the ability to configure the engine to ramp up and ramp down at different rates for different application circumstances.
Configurable CAN message time-outs.	Provides the user with the functionality to increase the stability of the CANbus messaging system.
In-built SNMP.	Removes the requirement for an additional SNMP device to connect to SNMP systems.
Configurable CAN transmit & receive.	Provides the ability to configure extra information to be sent or received over the CANbus link to support third party instrumentation.
Battery chargers on DSENet®.	Provides full support for intelligent DSE chargers and enable charger status information to be displayed on module front screen.
Update communication status screens.	More information has been added to the front panel display.

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Current Module Software Version

Version	Date	Comments
V 7.10	26.06.2024	Software upgraded to provide functionality for all new features.
V 7.9	16.05.2024	Software upgraded to provide functionality for all new features.
V 7.8	13.10.2022	Software upgraded to provide functionality for all new features.
V 7.7	07.04.2022	Software upgraded to provide functionality for all new features.
V 7.6	11.01.2022	Software upgraded to provide functionality for all new features.
V 7.5	08.07.2021	Software upgraded to provide functionality for all new features.
V 7.4	15.04.2021	Software upgraded to provide functionality for all new features.
V 7.3	N/A	Software upgraded to provide functionality for all new features.
V 7.2	03.02.2021	Software upgraded to provide functionality for all new features.
V 7.1	22.12.2020	Software upgraded to provide functionality for all new features.
V 7.0	22.05.2020	Software upgraded to provide functionality for all new features.
V 6.1.3	13.01.2020	Software upgraded to provide functionality for all new features.
V 5.0.7	15.10.2018	Software upgraded to provide functionality for all new features.
V 4.1.2	15.03.2018	Software upgraded to provide functionality for all new features.
V 3.0	23.10.2017	Software upgraded to provide functionality for all new features.