Replacements for Obsolete Modules

1   DESCRIPTION

DSE have been manufacturing engine and generator control modules since 1977. During this time, it is inevitable that some parts have become obsolete and are no longer available to purchase. Alongside this, is the end user's desire to update existing panels, replacing the controllers with modern equivalents, even if the existing module is still available. This document details the most popular DSE controllers both past and present and lists the possibilities of upgrading to modules in the current range of controllers.

2   OLD OR OBSOLETE PRODUCTS

Legacy Part	Recommended Replacement	Same Cutout?	Comment
DSE103			There is no replacement for this module
DSE103 MKII			There is no replacement for this module
DSE123	DSE G0123	✗	Provides exactly the same functionality
DSE130	DSE2130	✗	DSE130 not compatible with newer products. DSE2130 not compatible with older products. If replacing DSE130, generator controller will also need upgrading.
DSE157	DSE2157	✗	DSE157 not compatible with newer products. DSE2157 not compatible with older products. If replacing DSE157, generator controller will also need upgrading.
DSE200 Series			There is no replacement for individual modules in the 200 series. This was a range of timers, voltage switch relays etc designed to combine to make an entire system.
DSE2510	DSE2510 MKII	✓	DSE2510 MKII is a firmware upgraded DSE7310 MKII. Does not work with DSE7310 MKI, both DSE2510 MKI and DSE7310 MKI need to be replaced.
DSE2520	DSE2520 MKII	✓	DSE2520 MKII is a firmware upgraded DSE7320 MKII. Does not work with DSE7320 MKI, both DSE2520 MKI and DSE7320 MKI need to be replaced.
DSE2541			There is no direct replacement for this DSE unit. Contact Support for advice.
DSE300 Series			DSE do not manufacture modular systems like this, favouring a 'combined' approach where one module replaces a number of 200 series modules.
DSE3110 (CAN)	DSE4520 MKII	✗	DSE4520 MKII provides same functionality but with more additional features
DSE3210	DSE3110	✓	DSE3110 provides same functionality but does not offer a key switch variant
DSE327			There is no direct replacement for this DSE unit. Contact Support for advice.
DSE330	DSE331	✗	
DSE332	DSE334	✓	
DSE333	DSE334	✓	
DSE402			There is no replacement for this module
DSE402 MKII			There is no replacement for this module
DSE4110	DSE4520 MKII, DSE4610	✗	
DSE4120	DSE4520 MKII, DSE4620	✗	
DSE4130	DSE331	✗	DSE331 is also suitable for Mains / Mains operation as well as Mains / Gen
DSE4210	DSE4520 MKII	✗	
DSE4220	DSE4520 MKII	✗	DSE4220 had LED indication whereas DSE4520 MKII has LCD.
DSE4310	DSE4520 MKII	✓	DSE4310 was single phase only. DSE4520 has user configurable current sensing.
DSE4320	DSE4520 MKII	✗	DSE4320 was single phase only. DSE4520 is user configurable for many AC topologies. DSE4520 has user configurable current sensing.
DSE4410	DSE4520 MKII, DSE4610	✗	Use DSE4610 for use with a traditional engine.

Legacy Part	Recommended Replacement	Same Cutout?	Comment
DSE4420	DSE4520 MKII, DSE4620	✗	Use DSE4520 for use with a CAN engine. Use DSE4620 for use with a traditional engine.
DSE4510	DSE4520 MKII	✓	DSE4520 MKII can be selected as AutoStart mode
DSE4510 MKII	DSE4520 MKII	✓	DSE4520 MKII can be selected as AutoStart mode
DSE4520	DSE4520 MKII	✓	
DSE500	DSE331	✗	Can be used with DSE160 self-seeking supply if no DC supply is present in the ATS panel DSE331 has volts free auxiliary relays.
DSE501	DSE3110	✓	DSE3110 provides similar functionality but does not offer a key switch variant
DSE502	DSE3110, DSE4210	✗	
DSE503	DSE3110, DSE4210	✗	
DSE504 Annunciator			There is no replacement for standalone annunciator modules.
DSE506 Annunciator			There is no replacement for standalone annunciator modules.
DSE507 Annunciator			DSE no longer manufacture modular systems like this, favouring a 'combined' approach where the annunciator is either combined with the engine control module, or is part of a dedicated expansion link, driven by the host controller.
DSE508	DSE4520 MKII, DSE6020 MKII, DSE6120 MKIII	✗	DSE508 was single phase only. DSE4520 MKII and DSE6000 series is user configurable for many AC topologies.
DSE509	DSE4520 MKII, DSE6020 MKII, DSE6120 MKIII	✗	
DSE510 Annunciator			There is no replacement for standalone annunciator modules. DSE no longer manufacture modular systems like this, favouring a 'combined' approach where the annunciator is either combined with the engine control module, or is part of a dedicated expansion link, driven by the host controller.
DSE5103/5 12 V Charger	DSE9130 12 V 5 A Charger	✗	The DSE9000 series chargers are smaller and lighter, with integral mounting holes and DIN rail attachment.
DSE5103/5 24 V Charger	DSE9255 24 V 5 A Charger	✗	The DSE9000 series chargers are smaller and lighter, with integral mounting holes and DIN rail attachment.
DSE511	DSE3110, DSE4520 MKII, DSE4610	✗	DSE4610 have user configurable current sensing.
DSE5110	DSE7310 MKII	✓	DSE7310 MKII provides same functionality as the DSE5110 plus additional enhanced functionality. Wiring is different.
DSE5110 12 V Charger	DSE9470 MKII 12/24 V 10 A Charger	✗	The DSE9000 series chargers are smaller and lighter, with integral mounting holes and DIN rail attachment.
DSE5110 24 V Charger	DSE9470 MKII 12/24 V 10 A Charger	✗	The DSE9000 series chargers are smaller and lighter, with integral mounting holes and DIN rail attachment.
DSE512	DSE3110, DSE4520 MKII, DSE4610	✗	DSE4610 have user configurable current sensing.
DSE5120	DSE7320 MKII	✓	DSE7320 MKII provides same functionality as the DSE5120 plus additional enhanced functionality. Wiring is different.
DSE520	DSE3110, DSE4520 MKII, DSE4610	✗	DSE4610 have user configurable current sensing.
DSE521	DSE3110, DSE4520 MKII, DSE4610	✗	DSE4610 have user configurable current sensing.
DSE5210	DSE7310 MKII, DSE7410 MKII	✓	Use DSE7310/DSE7410 if your existing system uses the RS232 / RS485 port on the DSE5210.
DSE5220	DSE7320 MKII, DSE7420 MKII	✓	Use DSE7320/DSE7410 if your existing system uses the RS232 / RS485 port on the DSE5220.
DSE530	DSE334, DSE335	✗	All can be used with DSE160 self-seeking supply if no DC supply is present in the ATS panel
DSE5310	DSE7310 MKII, DSE7410 MKII	✓	
DSE5320	DSE7320 MKII, DSE7420 MKII	✓	
DSE540 / 541 Expansion Annunciator			There is no replacement for standalone annunciator modules. DSE no longer manufacture modular systems like this, favouring a 'combined' approach where the annunciator is either combined with the engine control module, or is part of a dedicated expansion link, driven by the host controller.
DSE550 (Autosync)	DSE8610 MKII	✗	Check with DSE Technical Support for compatible modules.
DSE550 (Basic) (No Comms)	DSE6110 MKIII, DSE7310 MKII, DSE7410 MKII	✗	DSE7310/DSE7410 have the possibility to add more inputs/outputs using the DSENET® expansion interface.
DSE550 (Basic) (RS232)	DSE7310 MKII, DSE7410 MKII	✗	DSE7310/DSE7410 have the possibility to add more inputs/outputs using the DSENET® expansion interface
DSE550 (Basic) (RS485)	DSE7310 MKII, DSE7410 MKII	✗	DSE7310/DSE7410 have the possibility to add more inputs/outputs using the DSENET® expansion interface
DSE550 (Enhanced)	DSE7310 MKII, DSE7410 MKII	✗	DSE7310/DSE7410 have the possibility to add more inputs/outputs using the DSENET® expansion interface
DSE550 (Load Share)	DSE8610 MKII	✗	Check with DSE Technical Support for compatible modules.
DSE5510	DSE8610 MKII	✓	Check with DSE Technical Support for compatible modules
DSE5520	DSE8620 MKII	✓	
DSE555 (Autosync)	DSE8620 MKII	✗	Check with DSE Technical Support for compatible modules.
DSE555 (Basic)	DSE6120 MKIII, DSE7320 MKII, DSE7420 MKII	✗	DSE7320/DSE7420 have more inputs/outputs than the DSE7220
DSE555 (Basic) (RS232)	DSE7320 MKII, DSE7420 MKII	✗	DSE7320/DSE7420 have more inputs/outputs than the DSE7220
DSE555 (Basic) (RS485)	DSE7320 MKII, DSE7420 MKII	✗	DSE7320/DSE7420 has the possibility to add more inputs/outputs using the DSENET® expansion interface.

Legacy Part	Recommended Replacement	Same Cutout?	Comment
DSE555 (Enhanced)	DSE7320 MKII, DSE7420 MKII	✘	Check with DSE Technical Support for compatible modules.
DSE555 (Load Share)	DSE8620 MKII	✘	Check with DSE Technical Support for compatible modules.
DSE556	DSE8660 MKII	✘	Check with DSE Technical Support for compatible modules
DSE5560	DSE8660 MKII	✔	Check with DSE Technical Support for compatible modules
DSE557	DSE8620 MKII	✘	Check with DSE Technical Support for compatible modules
DSE560	DSE4520 MKII, DSE4610, DSE6110 MKIII	✘	DSE46x0 has current measurement with delayed overcurrent DSE61x0 MKII has current measurement with delayed overcurrent
DSE6010	DSE6110 MKIII	✔	
DSE6010 MKII	DSE6110 MKIII	✔	
DSE601D	DSE4520 MKII, DSE4620, DSE6020 MKII, DSE6120 MKIII	✘	
DSE6020	DSE6020 MKII	✔	
DSE602D	DSE4520 MKII, DSE4610, DSE6110 MKIII, DSE7310 MKII, DSE7410 MKII	✘	
DSE602DS	DSE4520 MKII, DSE4610, DSE6110 MKIII, DSE7310 MKII, DSE7410 MKII	✘	DSE7310/DSE7410 have the possibility to add more inputs/outputs using the DSENET® expansion interface.
DSE603	DSE7320 MKII, DSE7420 MKII	✘	DSE7320/DSE7420 have the possibility to add more inputs/outputs using the DSENET® expansion interface.
DSE604	DSE7310 MKII, DSE7410 MKII	✘	DSE7310/DSE7410 have the possibility to add more inputs/outputs using the DSENET® expansion interface.
DSE606	DSE7320 MKII, DSE7420 MKII	✘	Depending upon the number of inputs and outputs being used in the 606, the new system may require more than provided on the DSE7320/DSE7420. In this instance, you can use the DSE2130 to provide more inputs and DSE2157 to provide more outputs.
DSE607	DSE7310 MKII, DSE7410 MKII	✘	Depending upon the number of inputs and outputs being used in the 607, the new system may require more than provided on the DSE7310/DSE7410. In this instance, you can use the DSE2130 to provide more inputs and DSE2157 to provide more outputs.
DSE6110	DSE6110 MKIII	✔	
DSE6110 MKII	DSE6110 MKIII	✔	
DSE6120	DSE6120 MKIII	✘	
DSE6120 MKII	DSE6120 MKIII	✔	
DSE6610	DSE6110 MKIII	✔	
DSE6620	DSE6020 MKII, DSE6120 MKIII	✔	
DSE701	DSE3110	✘	DSE3110 provides similar functionality but does not offer a key switch variant
DSE701 MKII	DSE3110	✘	DSE3110 provides similar functionality but does not offer a key switch variant
DSE702	DSE3110	✘	DSE3110 provides similar functionality but does not offer a key switch variant
DSE703	DSE4520 MKII, DSE4610	✘	
DSE704	DSE4520 MKII, DSE4620	✘	
DSE705	DSE331, DSE334	✘	DSE331, DSE334 is also suitable for Mains / Mains operation as well as Mains / Gen DSE 331 is single phase only.
DSE710	DSE6110 MKIII	✘	
DSE7110	DSE7310 MKII	✔	DSE7310 MKII provides same functionality as the DSE7110 plus additional enhanced functionality
DSE7120	DSE7320 MKII	✔	DSE7320 MKII provides same functionality as the DSE7120 plus additional enhanced functionality
DSE7110 MKII	DSE7310 MKII	✔	DSE7310 MKII provides same functionality as the DSE7110 plus additional enhanced functionality
DSE7120 MKII	DSE7320 MKII	✔	DSE7320 MKII provides same functionality as the DSE7120 plus additional enhanced functionality
DSE720	DSE6020 MKII, DSE6120 MKIII	✘	
DSE7210	DSE7310 MKII, DSE7410 MKII	✔	
DSE7220	DSE7320 MKII, DSE7420 MKII	✔	
DSE7310	DSE7310 MKII, DSE7410 MKII	✔	
DSE7320	DSE7320 MKII, DSE7420 MKII	✔	
DSE7410	DSE7410 MKII	✔	
DSE7420	DSE7420 MKII	✔	
DSE7450			There is no replacement for this module
DSE7510	DSE8610 MKII	✔	Check with DSE Technical Support for compatible modules
DSE7520	DSE8620 MKII	✔	Check with DSE Technical Support for compatible modules
DSE7560	DSE8660 MKII	✔	Check with DSE Technical Support for compatible modules
DSE8003	DSE8003 MKII	✔	DSE8003 MKII only supports the DSE86xx MKII
DSE8004	DSE8003 MKII	✘	DSE8003 MKII only supports the DSE86xx MKII
DSE810			There is no replacement for this interface module
DSE813			There is no replacement for this interface module
DSE820	DSE890 MKII	✘	DSE890 MKII is part of the DSEWebNet System.
DSE850	DSE890 MKII	✘	DSE890 MKII is part of the DSEWebNet System.
DSE860	DSE857	✘	There is no direct replacement for DSE860 (RS232 to Ethernet). Consider USB to Ethernet (DSE857) instead.
DSE8610	DSE8610 MKII	✔	Check with DSE Technical Support for compatible modules

Legacy Part	Recommended Replacement	Same Cutout?	Comment
DSE8620	DSE8620 MKII	✓	Check with DSE Technical Support for compatible modules
DSE865			There is no direct replacement for this DSE unit. Contact Support for advice.
DSE8660	DSE8660 MKII	✓	Check with DSE Technical Support for compatible modules
DSE8710	DSE8610 MKII + 020-1044 Rear Mount Bracket.	✗	
DSE8711	DSE8003 MKII	✗	DSE8003 MKII only supports the DSE86xx MKII
DSE8716	DSE8003 MKII	✗	DSE8003 MKII only supports the DSE86xx MKII
DSE8721	DSE8003 MKII	✓	DSE8003 MKII only supports the DSE86xx MKII
DSE8760	DSE8660 MKII + 020-1044 Rear Mount Bracket.	✗	
DSE8810	DSE8610 MKII DSE8920	✓ DSE8610 MKII ✗ DSE8920	Check with DSE Technical Support for compatible modules
DSE8860	DSE8660 MKII	✓	Check with DSE Technical Support for compatible modules
DSE890	DSE890 MKII	✓	DSE890 MKII does not have RS232 support
DSE891	DSE890 MKII	✓	DSE890 MKII does not have RS232 support DSE890 MKII provides exactly the same ethernet functionality
DSE8920	DSE8620 MKII with optional DSE8003 MKII	✗ DSE8620 MKII ✓ DSE8003 MKII	DSE8920 & DSE8620 MKII have the same functionality but have different cut-out sizes and the DSE8920 has a 7inch colour display. If a 7inch colour display is required with the same panel cut-out size, a DSE8003 MKII can be used as a remote display for a DSE8620 MKII. For further clarification, contact DSE Technical Support for advice.
DSE907 Industrial Battery Chargers	DSEBC2410Ei	✗	The DSE BC2410Ei can be configured for 12 or 24 V with a range of 1 to 10 A charging output
DSE908 Cabinet Battery Chargers	DSEBC2410Ei	✗	The DSE BC2410Ei can be configured for 12 or 24 V with a range of 1 to 10 A charging output
DSE9130	DSE BC1205	✗	
DSE9140 12 V, 10 A Charger	DSE9470 MKII 12/24 V 10 A Charger	✗	DSE9470 MKII is PC Configurable for voltage output and current limit.
DSE9255	DSE BC2405	✗	
DSE9260 24 V, 10 A Charger	DSE9470 MKII 12/24 V 10 A Charger	✗	DSE9470 MKII is PC Configurable for voltage output and current limit.
DSE9450			There is no direct replacement for this DSE unit. Contact Support for advice.
DSE9452			There is no direct replacement for this DSE unit. Contact Support for advice.
DSE9460	DSE BC2410Ei	✓	The DSE BC2410Ei can be configured for use as a 5 Amp charger
DSE9461	DSE BC2410Ei	✓	The DSE BC2410Ei can be configured for use as a 5 Amp charger
DSE9462	DSE9470 MKII 12/24 V 10 A Charger + DSEBC2415i 24V 15 A Charger	✗ DSE9470 MKII ✗ DSE BC2415i	DSE9462 was a dual output 12 V and 24 V charger. DSE9470 MKII used to replace 12 V output, DSE BC2415i used to replace 24 V output
DSE9472 MKII	DSE9470 MKII 12/24 V 10 A Charger	✓	DSE9470 MKII is PC Configurable for voltage output and current limit.
DSE9473	DSE BC2415i	✓	
DSE9479			There is no direct replacement for this DSE unit. Contact Support for advice.
DSE9480 MKII	DSE9470 MKII 12/24 V 10 A Charger	✓	DSE9470 MKII is PC Configurable for voltage output and current limit.
DSE9481 MKII	DSE9470 MKII 12/24 V 10 A Charger	✓	DSE9470 MKII is PC Configurable for voltage output and current limit.
DSE9483	DSE9470 MKII	✓	DSE9470 MKII is PC Configurable for voltage output and current limit. However can only be set to a maximum current of 10 A whereas DSE9483 was 15 A.
DSE9484	DSE9474 DSE9470 MKII	✓ DSE9474 ✗ DSE9470 MKII	
DSE9701	DSE BC2405	✗	
DSE9702	DSE BC1205	✗	
DSEA108	DSEA106 MKII DSEA109	✓ DSEA106 MKII ✗ DSEA109	Use DSEA106 if CAN is not required or DSEA109 if CAN Communications is required
DSEE400-02 (HTR)	DSEE400	✓	DSEE400 (non-heater) provides same functionality as the DSEE400 (heated) but does not offer the heated screen
DSEG8021	DSEG8015	✗	G8015 provides the same functionality as G8021. Has a smaller display, so requires a smaller panel cutout.
DSEL400	DSEL401 MKII	✓	DSEL400 had no current sensing option. This is user configurable on the DSEL401 MKII.
DSEL401	DSEL401 MKII	✓	
DSEM240 J1939 Variant	DSEM640	✓	M640 requires programming. Contact Support for details and/or for alternative solutions.
DSEM240 CANopen Variant			Contact Support for alternative solutions.
DSEM840	DSEM840 MKII	✓	
DSEM870-PV	DSEM870	✓	The DSEM870-PV software is available to be uploaded to a standard DSEM870. Contact our Technical Support Team for further information and guidance.
DSEP915			Can be purchased directly from the manufacturer IME in Italy www.imeitaly.com
DSEP961			NEMO96HD can be purchased directly from the manufacturer IME in Italy www.imeitaly.com

Legacy Part	Recommended Replacement	Same Cutout?	Comment
DSEP962			NEMO96HD can be purchased directly from the manufacturer IME in Italy www.imeitaly.com

3   RECOMMENDED DOCUMENTS

The following documents are listed to aid your identification of DSE products and ease the conversion from one module to another. They are available on the DSE website *www.deepseaelectronics.com*

DSE Part	Description
056-006	Introduction to Communications
056-008	DSE Part Numbering – Description of how the DSE part numbers are derived
056-017	PC Configuration interfacing – Lists the different configuration possibilities of DSE controllers
056-024	GSM modem – Details the possibilities when using a GSM modem with DSE products