COMPLEX SOLUTIONS MADE SIMPLE.

DSE®

Replacements For Obsolete Controllers

- **DESCRIPTION**

DSE have been manufacturing engine and generating set 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 more 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.

- **'OLD' OR OBSOLETE PRODUCTS**

Legacy Part	Recommended Replacement	Same Cutout?		Notes
200 Series 300 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. DSE do not manufacture modular systems like this, favouring a 'combined' approach where one module replaces a number of 200 series modules.
500	DSE330, DSE331	330 331	Yes No	Both can be used with DSE160 self seeking supply if no DC supply is present in the ATS panel DSE330 is single phase only DSE331 has volts free auxiliary relays.
501	DSE701 MKII	✓		
502	DSE3110, DSE4210	✗		
503	DSE3110, DSE4210	✗		
504 Annunciator 506 Annunciator 507 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.
508	DSE4520, DSE6020 MKII, DSE6120 MKII	✗		DSE508 was single phase only. DSE4520 and DSE6000 series is user configurable for many AC topologies.
509	DSE4520, DSE6020 MKII, DSE6120 MKII	✗		
510 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.
511 512	DSE3110, DSE4210, DSE4510, DSE4610	✗		DSE4510 and DSE4610 have user configurable current sensing.
520 521	DSE3110, DSE4210, DSE4510, DSE4610	✗		DSE4510 and DSE4610 have user configurable current sensing.
530	DSE334, DSE335	✗		All can be used with DSE160 self seeking supply if no DC supply is present in the ATS panel
540 / 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.
550 (Basic) (No Comms)	DSE6110 MKII, DSE7210, DSE7310, DSE7410	✗		DSE7310/DSE7410 have more inputs/outputs than the DSE7210 DSE7310/DSE7410 have the possibility to add more inputs/outputs using the DSENET® expansion interface.
550 (Basic) (RS232) 550 (Basic) (RS485)	DSE7310, DSE7410	✗		DSE7310/DSE7410 have the possibility to add more inputs/outputs using the DSENET® expansion interface
550 (Enhanced)	DSE7310, DSE7410	✗		DSE7310/DSE7410 have the possibility to add more inputs/outputs using the DSENET® expansion interface Check with DSE Technical Support for compatible modules.
550 (Autosync) 550 (Load Share)	DSE8610, DSE8710, DSE8810	✗		Check with DSE Technical Support for compatible modules.
555 (Basic) (No Comms)	DSE6120 MKII, DSE7220, DSE7320, DSE7420	✗		DSE7320/DSE7410 have more inputs/outputs than the DSE7220 DSE7320/DSE7410 have the possibility to add more inputs/outputs using the DSENET® expansion interface.
555 (Basic) (RS232) 555 (Basic) (RS485)	DSE7320, DSE7420	✗		DSE7320/DSE7420 have more inputs/outputs than the DSE7220 DSE7320/DSE7420 has the possibility to add more inputs/outputs using the DSENET® expansion interface.
555 (Enhanced)	DSE7320, DSE7420	✗		Check with DSE Technical Support for compatible modules.
555 (Autosync) 555 (Load Share)	DSE8620	✗		Check with DSE Technical Support for compatible modules.
556	DSE8660, DSE8760, DSE8860	✗		Check with DSE Technical Support for compatible modules
557	DSE8620	✗		Check with DSE Technical Support for compatible modules

Legacy Part	Recommended Replacement	Same Cutout?	Notes
560	DSE4510, DSE4610, DSE6010 MKII, DSE6110 MKII, DSE7110 MKII, DSE7210	✗	DSE45x0 has current measurement with delayed overcurrent DSE46x0 has current measurement with delayed overcurrent DSE60x0 MKII has current measurement without protection DSE61x0 MKII has current measurement with delayed overcurrent DSE71x0 MKII has current measurement with delayed overcurrent DSE72x0 has current measurement with full IDMT alarm
601D	DSE4520, DSE4620, DSE6020 MKII, DSE6120 MKII, DSE7120 MKII, DSE7220	✗	
602D 602DS	DSE4510, DSE4610, DSE6010 MKII, DSE6110 MKII, DSE7110 MKII, DSE7210, DSE7310, DSE7410	✗	DSE7310/DSE7410 have more inputs/outputs than the DSE7210 DSE7310/DSE7410 have the possibility to add more inputs/outputs using the DSENET® expansion interface.
603	DSE7220, DSE7320, DSE7420	✗	DSE7320/DSE7420 have the possibility to add more inputs/outputs using the DSENET® expansion interface.
604	DSE7210, DSE7310, DSE7410	✗	DSE7310/DSE7410 have the possibility to add more inputs/outputs using the DSENET® expansion interface.
606	DSE7320, DSE7420	✗	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.
607	DSE7310, DSE7410	✗	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.
701	DSE701 MKII, DSE3110, DSE3210	✓	DSE3110 is not a key start module, operation is by push buttons
702	DSE701 MKII, DSE3110, DSE3210	✗	DSE3110 is not a key start module, operation is by push buttons
705	DSE330, DSE331, DSE334	✗	DSE330,DSE331, DSE334 is also suitable for Mains / Mains operation as well as Mains / Gen DSE 331 is single phase only.
DSE820	DSE890, DSE891	✗	DSE890 and DSE891 are part of the DSEWebnet System.
DSE850	DSE890, DSE891	✗	DSE890 and DSE891 are part of the DSEWebnet System.
DSE865	DSE857	✗	DSE857 is DIN rail mountable, marginally larger than the DSE865
DSE4110	DSE4510, DSE4610	✓	
DSE4120	DSE4520, DSE4620	✓	
DSE4130	DSE331	✓	DSE331 is also suitable for Mains / Mains operation as well as Mains / Gen
DSE4310	DSE4510	✓	DSE4310 was single phase only. DSE4510 is user configurable for many AC topologies. DSE4510 has user configurable current sensing.
DSE4320	DSE4520	✓	DSE4320 was single phase only. DSE4520 is user configurable for many AC topologies. DSE4520 has user configurable current sensing.
DSE4410	DSE4510, DSE4610	✗	Use DSE4510 for use with a CAN engine. Use DSE4610 for use with a traditional engine.
DSE4420	DSE4520, DSE4620	✗	Use DSE4520 for use with a CAN engine. Use DSE4620 for use with a traditional engine.
DSE5110	DSE7110 MKII, DSE7210	✓	
DSE5120	DSE7120 MKII, DSE7220	✓	
DSE5210	DSE7210, DSE7310, DSE7410	✓	Use DSE7310/DSE7410 if your existing system uses the RS232 / RS485 port on the DSE5210. This is not present on the DSE7210.
DSE5220	DSE7220, DSE7320, DSE7420	✓	Use DSE7320/DSE7410 if your existing system uses the RS232 / RS485 port on the DSE5220. This is not present on the DSE7220.
DSE5310	DSE7310, DSE7410	✓	
DSE5320	DSE7320, DSE7410	✓	
DSE5510	DSE8610, DSE8710, DSE8810	✓	Check with DSE Technical Support for compatible modules
DSE5520	DSE8620	✓	Check with DSE Technical Support for compatible modules
DSE5560	DSE8660, DSE8760, DSE8860	✓	Check with DSE Technical Support for compatible modules
DSE6010	DSE6010 MKII	✓	
DSE6020	DSE6020 MKII	✓	
DSE6110	DSE6110 MKII	✓	
DSE6120	DSE6120 MKII	✓	
DSE6610	DSE6010 MKII	✓	
DSE6620	DSE6020 MKII	✓	
DSE7110	DSE7110 MKII	✓	
DSE7120	DSE7120 MKII	✓	
DSE7510	DSE8610, DSE8710, DSE8810	✓	Check with DSE Technical Support for compatible modules
DSE7520	DSE8620	✓	Check with DSE Technical Support for compatible modules
DSE7560	DSE8660	✓	Check with DSE Technical Support for compatible modules
5103/5 12V Charger	DSE9130 12V 5A Charger DSE9481 12V 5A Charger	✗	The DSE9000 series chargers are smaller and lighter, with integral mounting holes and DIN rail attachment.
5103/5 24V Charger	DSE9472 24V 5A Charger	✗	The DSE9000 series chargers are smaller and lighter, with integral mounting holes and DIN rail attachment.
5110 12V Charger 5110 24V Charger	DSE9480 12V 10A Charger DSE9470 24V 10A Charger	✗	The DSE9000 series chargers are smaller and lighter, with integral mounting holes and DIN rail attachment.
0908 Cabinet Battery Chargers	DSE9460, DSE9461	✗	
0907 Industrial Battery Chargers	DSE9460, DSE9461	✗	
DSEL400	DSEL401 MKII	✓	DSEL400 had no current sensing option. This is user configurable on the DSEL401 MKII.
DSEL401	DSEL401 MKII	✓	

- ## CURRENT CONTROLLERS

The controllers listed below are current controllers included here to give the option to update them to more recent designs of controllers, often with more functions.

Legacy Part	Recommended Replacement	Same Cutout?	Notes
DSE333	DSE334, DSE335	334 Yes 335 No	DSE334/DSE335 is also suitable for Mains / Mains operation as well as Mains / Gen
DSE710	DSE6010 MKII, DSE6110 MKII	✓	
DSE720	DSE6020 MKII, DSE6120 MKII	✓	
DSE9130 12V 5A Charger DSE9255 24V 5A Charger	DSE9481 12V 5A Charger DSE9472 24V 5A Charger	✗	
DSE9140 12V 10A Charger DSE9260 24V 10A Charger	DSE9480 12V 10A Charger DSE9270 24V 10A Charger	✗	

- ## 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.deepseaplc.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