



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 modules with more modern equivalents, even if the existing module is still available.

This document details the most popular DSE modules both past and present and lists the possibilities of upgrading to current range of modules.

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 module will also need upgrading. |
| DSE157 | DSE2157 | * | DSE157 not compatible with newer products. DSE2157 not compatible with older products. If replacing DSE157, generator module 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. |
| DSE300 Series | | | DSE do not manufacture modular systems like this, favouring a 'combined' approach where one module replaces a number of 300 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 |
| 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, DSEG4500 | ✓ | |
| DSE4120 | DSE4520 MKII, DSEG4500 | ✓ | |
| DSE4130 | DSE331 | ✓ | DSE331 is also suitable for Mains / Mains operation as well as Mains / Gen |
| DSE4210 | DSE4520 MKII, DSEG4500 | ✓ | |
| DSE4220 | DSE4520 MKII, DSEG4500 | ✓ | DSE4220 had LED indication whereas DSE4520 MKII and DSEG4500 has LCD. |
| DSE4310 | DSE4520 MKII, DSEG4500 | ✓ | DSE4310 was single phase only. DSE4520 MKII has user configurable current sensing. |
| DSE4320 | DSE4520 MKII, DSEG4500 | ✓ | DSE4320 was single phase only. DSE4520 is user configurable for many AC topologies. DSE4520 and DSEG4500 has user configurable current sensing. |
| DSE4410 | DSE4520 MKII, DSEG4500 | * | Use DSEG4500 for use with a conventional engine. |
| DSE4420 | DSE4520 MKII, DSEG4500 | * | Use DSE4520 for use with a CAN engine. Use DSEG4500 for use with a traditional engine. |

| Legacy Part | Recommended Replacement | Same Cutout? | Comment |
|------------------------------------|---|--------------|--|
| DSE4510 | DSE4520 MKII, DSEG4500 | ✓ | |
| DSE4510 MKII | DSE4520 MKII, DSEG4500 | ✓ | DSE4520 MKII and DSEG4500 can be selected as AutoStart mode |
| DSE4520 | DSE4520 MKII, DSEG4500 | ✓ | |
| DSE4610 | DSEG4500 | ✓ | Different dimensions but same cut out size |
| DSE4620 | DSEG4500 | ✓ | Different dimensions but same cut out size |
| 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 | ✓ | |
| DSE502 | DSE3110, DSE4510 MKII, DSEG4500 | ✗ | |
| DSE503 | DSE3110, DSE4510 MKII, DSEG4500 | ✗ | |
| 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 module. |
| DSE508 | DSE4520 MKII, DSE6020 MKII, DSE6120 MKIII, DSEG4500 | ✗ | DSE508 was single phase only. DSE4520 MKII and DSE6000 series is user configurable for many AC topologies. |
| DSE509 | DSE4520 MKII, DSE6020 MKII, DSE6120 MKIII, DSEG4500 | ✗ | |
| 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 module. |
| DSE5103/5 12 V Charger | DSE BC1205 | ✗ | |
| DSE5103/5 24 V Charger | DSE BC2405 | ✗ | |
| DSE511 | DSE3110, DSE4520 MKII, DSEG4500 | ✗ | DSEG4500 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, DSEG4500 | ✗ | 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, DSEG4500 | ✗ | DSEG4500 have user configurable current sensing. |
| DSE521 | DSE3110, DSE4520 MKII, DSEG4500 | ✗ | DSEG4500 have user configurable current sensing. |
| DSE5210 | DSE7310 MKII, DSE7410 MKII | ✓ | Use DSE7310/DSE7410 MKII if your existing system uses the RS232 / RS485 port on the DSE5210. |
| DSE5220 | DSE7320 MKII, DSE7420 MKII | ✓ | Use DSE7320/DSE7420 MKII 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 module. |
| DSE550 (Autosync) | DSE8610 MKII | ✗ | Check with DSE Technical Support for compatible modules. |
| DSE550 (Basic) (No Comms) | DSE6110 MKIII, DSE7310 MKII, DSE7410 MKII | ✗ | DSE7310/DSE7410 MKII have the possibility to add more inputs/outputs using the DSENET® expansion interface. |
| DSE550 (Basic) (RS232) | DSE7310 MKII, DSE7410 MKII | ✗ | DSE7310/DSE7410 MKII have the possibility to add more inputs/outputs using the DSENET® expansion interface |
| DSE550 (Basic) (RS485) | DSE7310 MKII, DSE7410 MKII | ✗ | DSE7310/DSE7410 MKII have the possibility to add more inputs/outputs using the DSENET® expansion interface |
| DSE550 (Enhanced) | DSE7310 MKII, DSE7410 MKII | ✗ | DSE7310/DSE7410 MKII 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 | ✗ | |
| DSE555 (Basic) (RS232) | DSE7320 MKII, DSE7420 MKII | ✗ | |
| DSE555 (Basic) (RS485) | DSE7320 MKII, DSE7420 MKII | ✗ | DSE7320/DSE7420 MKII has the possibility to add more inputs/outputs using the DSENET® expansion interface. |

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|-----------------------------|---|--------------|---|
| 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, DSEG4500, DSE6110 MKIII | ✘ | DSEG4500 has current measurement with delayed overcurrent. DSE61x0 MKIII has current measurement with delayed overcurrent |
| DSE6010 | DSE6110 MKIII | ✓ | |
| DSE6010 MKII | DSE6110 MKIII | ✓ | |
| DSE601D | DSE4520 MKII, DSEG4500, DSE6020 MKII, DSE6120 MKIII | ✘ | |
| DSE6020 | DSE6020 MKII | ✓ | |
| DSE602D | DSE4520 MKII, DSEG4500, DSE6110 MKIII, DSE7310 MKII, DSE7410 MKII | ✘ | |
| DSE602DS | DSE4520 MKII, DSEG4500, DSE6110 MKIII, DSE7310 MKII, DSE7410 MKII | ✘ | DSE7310/DSE7410 MK II have the possibility to add more inputs/outputs using the DSENET® expansion interface. |
| DSE603 | DSE7320 MKII, DSE7420 MKII | ✘ | DSE7320/DSE7420 MKII have the possibility to add more inputs/outputs using the DSENET® expansion interface. |
| DSE604 | DSE7310 MKII, DSE7410 MKII | ✘ | DSE7310/DSE7410 MKII 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 MKII. 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 MKII. 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, DSEG4500 | ✘ | |
| DSE704 | DSE4520 MKII, DSEG4500 | ✘ | |
| 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 | ✓ | |
| DSE7310 MKII Heater Variant | DSE7310 MKII, DSE7410 MKII | ✓ | |
| DSE7320 | DSE7320 MKII, DSE7420 MKII | ✓ | |
| DSE7320 MKII Heater Variant | 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 supports the DSE86xx MKII, DSE73xx MKII and DSE74xx MKII |
| DSE8004 | DSE8003 MKII | ✘ | DSE8003 MKII supports the DSE86xx MKII, DSE73xx MKII and DSE74xx MKII |
| DSE810 | | | There is no replacement for this interface module |
| DSE813 | | | There is no replacement for this interface module |

| Legacy Part | Recommended Replacement | Same Cutout? | Comment |
|------------------------------------|---|----------------------------------|---|
| 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 RS485 (DSE857) instead. |
| DSE8610 | DSE8610 MKII | ✓ | Check with DSE Technical Support for compatible modules |
| DSE8620 | DSE8620 MKII | ✓ | Check with DSE Technical Support for compatible modules |
| DSE865 | DSE857 | ✗ | DSE857 is DIN rail mountable, marginally larger than the DSE865 |
| 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, DSE891 MKII (Region Dependant) | ✓ | DSE890 MKII does not have RS232 support |
| DSE891 | DSE891 MKII | ✓ | DSE891 MKII does not have RS232 support DSE891 MKII provides exactly the same ethernet functionality DSE891 MKII is suitable for use in the EU |
| 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. |
| DSE9155 | | | There is no direct replacement for this DSE unit. Contact Support for advice. |
| 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 and 24 V output, DSEBC2415i 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. |
| DSE9481 MKII | DSE9470 MKII 12/24 V 10 A Charger | ✓ | DSE9470 MKII is PC Configurable for voltage output and current limit. |
| DSE9483 | DSE9470 MKII 12/24 V 10 A Charger | ✓ | 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 | 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 30 A. |
| 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 |
| 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 | ✓ | |

| Legacy Part | Recommended Replacement | Same Cutout? | Comment |
|-------------|-------------------------|--------------|---|
| 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 |
| 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 modules |
| 056-024 | GSM modem – Details the possibilities when using a GSM modem with DSE products |