



**File Name:** Dse User Manual.pdf

**Size:** 4291 KB

**Type:** PDF, ePub, eBook

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## Book Descriptions:

# Dse User Manual

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Document Number 057112. Author Anthony Manton Issue 1 First release. Issue 2 Added fast loading and changes to flexible sensor alarms in the front panel configuration table. DSE Model 60xx Series Control and Instrumentation System Operators Manual. Deep Sea Electronics Plc. Highfield House. Hunmanby. North Yorkshire DSE Model 60xx series Control and Instrumentation System Operators Manual. All rights reserved. No part of this publication may be reproduced in any material form including photocopying or storing in any medium by Designs and Patents Act 1988. Applications for the copyright holders written permission to reproduce any part of this publication should be addressed to Deep Sea Electronics. Plc at the address above. The DSE logo and the names are UK registered trademarks of Deep Sea Electronics PLC. Any reference to trademarked product names used within this publication is owned by their respective companies. Deep Sea Electronics Plc reserves the right to change the contents of this document without prior notice. Amendments since last publication. Clarification of notation used within this publication. Highlights an essential element of a procedure to ensure correctness. Indicates a procedure or practice, which could result in injury to personnel or loss of life if not followed. The manual forms part of the product and should be kept for the entire life of the product. If the product is passed or supplied to This is not a controlled document. You will not be automatically informed of updates. Any future updates of this document will The user also has the facility to view the system operating parameters via the LCD display. The DSE 60xx module monitors the engine, indicating the operational status and fault conditions, automatically shutting down. The LCD display indicates the fault. The powerful microprocessor contained within the module allows for incorporation of a range of enhanced features. True RMS Voltage monitoring with 3 phase generator sensing Mk2 models only.

Engine parameter monitoring. Fully configurable inputs for use as alarms or a range of different functions. Engine ECU interface to electronic engines specify on ordering. Magnetic pickup interface for engine only applications specify on ordering. Using a PC and the 60xx series configuration software allows alteration of selected operational sequences, timers and alarm. Additionally, the modules integral fascia configuration editor allows full adjustment of all this information. A robust plastic case designed for front panel mounting houses the module. Connections are via locking plug and sockets. DSE Model 60xx Series Control and Instrumentation System Operators Manual Variant DSE 6020 Auto. Mains Failure Revision 1. Hardware revision When the engine is fitted Variant 02 is only suitable for CAN enabled engines with CAN engine control unit ECU. Sample Rate 5KHz or better. Harmonics Up to 11 or better. Input Impedance 300K ohm. Phase to Neutral 15V to 333V AC max. Phase to Phase 25V to 576V AC max. Common mode offset from Earth 100V AC max. Resolution 1V AC phase to neutral. Minimum frequency 3.5Hz. Maximum frequency 75.0Hz. Frequency resolution 0.1Hz. Minimum supply voltage 8V continuous. Cranking dropouts. Able to survive 0V for 50ms providing the supply was at least 10V before. Maximum supply voltage 35V continuous 60V protection. Reverse polarity protection 35V continuous. Maximum operating current Nominal standby current Power Save Mode Active 43mA at 12V, 28mA at 24V. Range 0V 60V DC note Maximum continuous operating voltage of 35V DC. Resolution 0.1V. Accuracy 1% full scale. Connection type Screw terminal, rising clamp, no internal spring. Min cable size 0.5mm AWG 24. Max cable size 2.5mm AWG 10 Arrangement Differential resistance measurement input. Measurement current 10mA. Full scale 480. Measurement type Resistance measurement by measuring voltage across sensor with a fixed current applied. Arrangement Differential resistance measurement input. Measurement current 15mA.

Full scale 240. Resolution 12 PSI 0.1 Bar. Display range 0 200 PSI 13.7 bar subject to limits of the sensor. Resolution 1%. Display range 0 250%. Number 4. Arrangement Contact between terminal and ground. Low level threshold 40% of DC supply voltage. High level threshold 60% of DC supply

voltage. Maximum input voltage DC supply voltage positive terminal. Minimum input voltage DC supply voltage negative terminal. Open circuit voltage Plant supply. DSE Model 60xx Series Control and Instrumentation System Operators Manual Coolant Temperature. Flexible Sensor Maximum voltage 35V plant supply. Resolution 0.2V. Excitation Active circuit constant power output. Output Power 2.5W nominal at 12V and 24V. Current at 12V 210mA. Current at 24V 105mA. Type Single ended input, capacitive coupled. Minimum voltage 0.5V RMS. Maximum frequency 10,000Hz. Resolution 6.25 RPM. Flywheel teeth 10 to 500. USB Port USB2.0 Device for connection to PC running DSE configuration suite only. CAN Port MPU version. Engine CAN Port. Non Isolated. Internal Termination provided 120. Type Fuel A and Start B outputs. Supplied from DC supply terminal 2. Fully configurable when CAN engine is selected. Built in load dump feature. Type Fully configurable, supplied from DC supply terminal 2. Built in load dump feature. Number of starts 1,000,000 1 million Turn the fixing clip screws clockwise until they make contact with the panel fascia. Turn the screws a little more to secure the module into the panel fascia. Care should be taken not to over tighten the Fixing clip. Fixing clip fitted to NOTE In conditions of excessive vibration, mount the panel on suitable antivibration mountings. The gasket is fitted to the module before installation into the panel fascia. Take care to ensure the gasket is correctly fitted to the module to maintain the integrity of the seal. Gasket fitted to. Sealing gasket module BS 48842 This document conforms to BS 48842 1993 Guide to content.

BS 48843 This document conforms to BS 48843 1993 Guide to presentation BS EN 60950 Safety of information technology equipment, including electrical business equipment. BS EN 6100062 EMC Generic Immunity Standard Industrial. BS EN 6100064 EMC Generic Emission Standard Industrial IP65 front of module when installed into the control panel with the optional sealing gasket. IP42 front of module when installed into the control panel WITHOUT being sealed to the System Device Function. Numbers and Contact. Designations. Under the scope of IEEE 37.2, function numbers can also be used to represent functions in The 60xx series controller is device number 11L60xx Multifunction device protecting Line. As the module is configurable by the generator OEM, the functions covered by the module will Supplies the module 2A antisurge requirement and all Normally used for FUEL control. Normally used for START control. If charge alternator is not fitted, leave this terminal Normally used for Generator load switch control. Normally used for Mains load switch control DSE6020 DSE Model 60xx Series Control and Instrumentation System Operators Manual For dimension and mounting details, see the NOTE Note that these connection details are for Mk2 controllers. Connection details for Mk1 controllers are Refer to Electronic Engines and DSE Wiring for further information. DSE Part No. 057004. PIN No DESCRIPTION CABLE NOTE The simplest way to achieve this is to run a SEPERATE earth connection from the NOTE. If you use PTFE insulating tape on the sensor thread when using earth return sensors, NOTE Screened cable must be used for connecting the Magnetic Pickup, ensuring that the screen is DSE Model 60xx Series Control and Instrumentation System Operators Manual NOTE Screened 120 impedance cable specified for use with CAN must be used for the CAN link and DSE stock and supply Belden cable 9841 which is a high quality 120. Generator L2 V voltage Generator L3 W voltage Generator Neutral N input. Mains L1 R voltage monitoring.

Mains L2 S voltage monitoring. Mains L3 T voltage monitoring. Mains Neutral N input Connect to generator L2 V output AC Connect to generator L3 W output AC Connect to generator Neutral terminal AC. Connect to Mains L1 R output AC Connect to Mains L2 S output AC Connect to Mains L3 T output AC Connect to Mains Neutral terminal AC. NOTE Terminals 2326 are not fitted to the DSE6010. Disconnection will open Always ensure the CTs are NOTE The 6000 series module has a burden of 0.5VA on the CT. Ensure the CT is rated for the burden NOTE Take care to ensure correct polarity of the CT primary as shown below. If in doubt, check with CT labelled as To Supply. To Load. CT labelled as NOTE Terminals 30 and 31 are internally connected to each other. Configuration Suite PC software. DSE Model 60xx Series Control and Instrumentation System Operators Manual NOTE

The USB connection cable between the PC and the 6000 series module must not be extended. Typically, the supply and support of this type of equipment is outside the scope of Deep Sea Electronics PLC. CAUTION! Care must be taken not to overload the PC's USB system by connecting more than the For further information, consult your PC supplier. CAUTION! This socket must not be used for any other purpose.

Display Scroll button. Main status display. Common Alarm. Indicator. Page button. Select Stop. Select Manual Start engine. Select Test Mains Available. Mains On Load. Generator On load. Generator Available. Start button to crank. Icon and numeric display. Software controlled contrast. Mimic of 4 x indicators via LCD. Frequency. It is possible to scroll to display the different pages of information by repeatedly operating the down button. Pressing the information button toggles between instrumentation and event log displays.

Once selected the page will remain on the LCD display until the user selects a different page or after an extended period of time. When scrolling manually by pressing the button, the display will automatically return to the Status page if no buttons are pressed. If an alarm becomes active while viewing the status page, the display shows the Alarms page to draw the operators attention. Metering Generator Voltage, 3phase, LL and LN. Generator Frequency. Mains Voltage, 3phase, LL and LN Model 6020 only. Mains Frequency. Generator Current. Generator kW L1 L2 L3. Generator KW. Generator kVA L1 L2 L3. Generator kVA. Generator kV Ar L1 L2 L3. Generator kV Ar. Power Factor pf L1 L2 L3. Power Factor pf. Power kWh kV Arh. Battery Voltage. Engine hours Run. Oil Pressure Gauge. Engine Temperature Gauge. Fuel Level. Pressing the down button will move from the instrumentation page to the event log. A number in the bottom left indicates the event log entry currently displayed. There are five event log entries in the 60xx units. When the event log is displayed the icon in the alarm icon area indicates the alarm type at that position of the event log. The bottom right icon indicates the current mode as follows: Example of Auxiliary Input Shutdown Alarm. Auxiliary input A. Event Log icon is logged. Event number 1. Number of engine running hours when the engine is running and the module is in Stop mode, the module will respond to the start button, start the engine, and run off load. If the module is in Manual mode the module will respond to the start button, start the engine, and run off load. If the module is in Auto mode the module will monitor the remote start input and mains supply status and upon removal of the starting signal, the module will automatically transfer the load from the generator and shut down the generator. The module will then await the start. Pressing this button in manual or test mode will start the engine and run off load manual or on load test. Scroll. This button scrolls through the instruments in the currently displayed page. Page.

Toggles the display between instrumentation and event log mode, Remote start input. Low battery run. Scheduled run. Mains failure 6020 only. DSE Model 60xx Series Control and Instrumentation System Operators Manual Activate auto mode by pressing the pushbutton. The icon is displayed to indicate Auto Mode operation if no alarms Auto mode will allow the generator to operate fully automatically, starting and stopping as required with no user intervention. Starting requests can be from the sources shown below. When the engine is running in AUTO mode, an icon is displayed to indicate a start request is still present at the end of the start delay timer, the fuel relay is energised and the engine will be cranked. NOTE If the unit has been configured for CAN, compatible ECUs will receive the start command via CAN. If the engine fails to fire during this cranking attempt then the starter motor is disengaged for the crank rest duration after which Should this sequence continue beyond the set number of attempts, the start sequence will be When the engine fires, the starter motor is disengaged. Speed detection is factory configured to be derived from the main Additionally, rising oil pressure can be used to disconnect the starter motor but cannot detect underspeed or overspeed. NOTE If the unit has been configured for CAN, speed sensing is via CAN. After the starter motor has disengaged, the Safety On timer activates, allowing Oil Pressure, High Engine Temperature, Under The generator is placed on load if configured to do so. NOTE The load transfer signal remains inactive until the Oil Pressure has risen. This prevents excessive wear on If all start requests are removed, the stopping sequence will begin. If there are no starting requests at the end of the return delay timer, the load is removed from the generator to the mains supply The cooling timer allows the



set to run off load and cool sufficiently before being stopped.

This is particularly important whereAfter the cooling timer has expired, the set is stopped. An LED indicator beside the button confirms this action. Manual mode allows the operator to start and stop the set manually, and if required change the state of the loadTo begin the starting sequence, press the button. The fuel relay is energised and the engine is cranked. If the engine fails to fire during this cranking attempt then the starter motor is disengaged for the crank rest durationShould this sequence continue beyond the set number of attempts, theWhen the engine fires, the starter motor is disengaged. Speed detection is factory configured to be derived from theAdditionally, rising oil pressure can be used disconnect the starter motor but cannot detect underspeed orNOTE If the unit has been configured for CAN, speed sensing is via CAN. After the starter motor has disengaged, the Safety On timer activates, allowing Oil Pressure, High Engine. Temperature, Underspeed, Charge Fail and any delayed Auxiliary fault inputs to stabilise without triggering theLow battery run. This prevents excessive wear onOnce the load has been transferred to the generator, it will not be automatically removed. To manually transfer theThe set will observe all auto mode startThe auto buttonActivate test mode by pressing the pushbutton. An LED indicator beside the button confirms this action. Test mode will start the set and transfer the load to the generator to provide a Test on load function.To begin the starting sequence, press the button.NOTE If the unit has been configured for CAN, compatible ECUs will receive the start command viaShould this sequence continue beyond the set number of attempts, theWhen the engine fires, the starter motor is disengaged. Temperature, Underspeed, Charge Fail and any delayed Auxiliary fault inputs to stabilise without triggering theLoad will be automatically transferred from the mains supply to the generator.

This preventsIn test mode, the set will continue to run on load until eitherThe auto buttonStopped Appears when the engine is at rest and the unit is in stop mode. Auto Appears when the engine is at rest and the unit is in auto mode. Timer animation Appears when a timer is active, for example cranking time, crank rest etc. Running animation Appears when the engine is running, and all timers have expired, either on or off load. The animationFront panel editor Appears when the unit is in the front panel editor. Inst. Icon. Instrumentation Units. Alarm. ActiveInstrumentation Units. Mode. IconInstrumentation Units. DSE Model 60xx Series Control and Instrumentation System Operators ManualPower Save mode, or if the engine is cranking for which the backlight will be turned off.The display is segmented into areas for instrumentation, units, alarm icons andInstrumentation Icon. Active configurationInstrumentation. Units. Mode IconGenerator Used for generator voltage and generator frequency. Mains Used for mains voltages and mains frequency. Engine speed Engine speed instrumentation screen. Hours Run Hours run instrumentation screen.

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