



## DESCRIPTION

The Deep Sea Electronics Model **801** has been designed to allow the operating parameters of the DSE 509 Automatic Mains Failure module to be adjusted.

All of the following are adjustable using the 801 calibration unit:

- **Language:** The 509 has up to 21 different language options installed. Refer to DSE for an up to date list.
- **Plant battery voltage high and low trip levels:** Adjustable between 0V and 40V.
- **Start Delay/Pre-heat timer:** Inhibits starting on mains failure to allow for voltage dips etc. Engine pre-heat also active (pre-heat mode selectable).
- **Multiple attempts to start:** Number of cranking attempts.
- **Cranking and crank rest timers:** Duration of each crank and rest period.
- **Protection hold off/Safety on:** Time delay observed by delayed alarms such as oil pressure during start-up. This enables the engine to establish normal running condition.
- **Warm-up time:** Stabilisation delay on generator start-up. Also to protect turbo charged engines allowing oil flow to be established prior to loading.
- **Run on time:** allows the turbo charger to slow down and cool prior to engine stop.
- **Speed sensing:** From either generator AC output or from a magnetic pick-up.
- **Crank disconnect Speed:** The minimum speed before the crank disengages.
- **Load transfer speed:** The minimum speed before the generator is available to be loaded.
- **Underspeed:** The speed at which the generator will shutdown if running too slow.
- **Overspeed:** The maximum allowable engine speed.

- **Message Text:** LCD display messages for Emergency Stop, the 3 configurable inputs and selected status display lines.
- **Configurable Inputs:** Selected from: Shutdown, Warning, Remote Start On/Off Load, Simulated Mains. Inputs can be NO or NC contacts. Warning and shutdown inputs can be immediate or delayed.
- **Configurable output:** Selected from: Pre-heat, Louvre, Air-flap, Energise to Stop, Engine Running or System in Auto.

Access to the critical operational sequences and timers is restricted by security code.

The 801 calibration unit is fitted with a simple six button keypad. This provides access to the following functions:

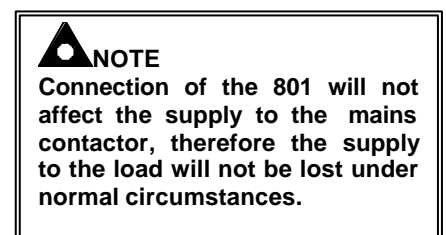
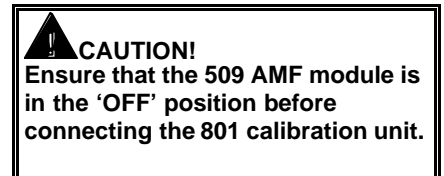
**Menu up and Menu down** - Used to navigate the 509 menu structure and select the appropriate setting to adjust.

**Cursor Left and Cursor Right** - Used to select the appropriate value to increase or decrease. Also used to select text position in messages.

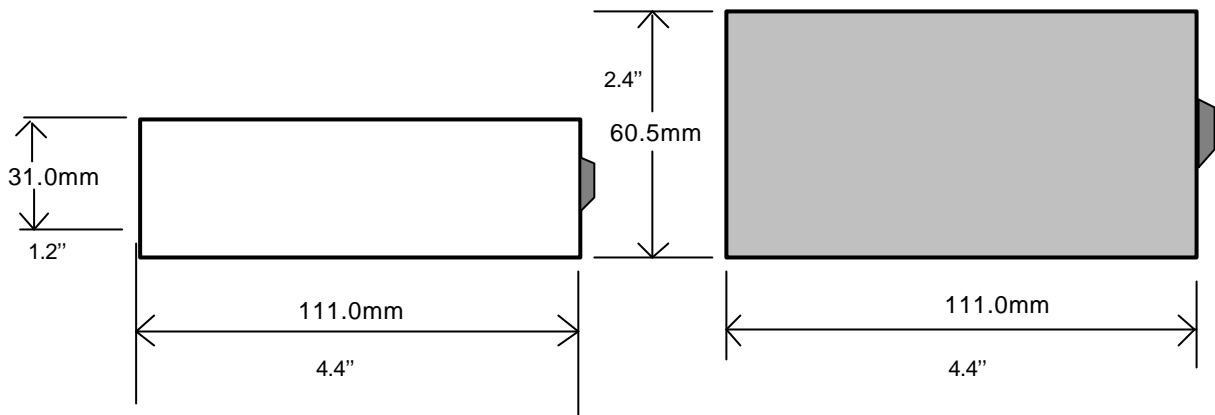
**Value increase and Value decrease** - Used to increment or decrement displayed value. Also used to toggle round available selection on non numeric settings.

**Connection of the 801 calibration unit to the 509 AMF module** is performed by removing the 12-way connector from the rear of the 509 module.

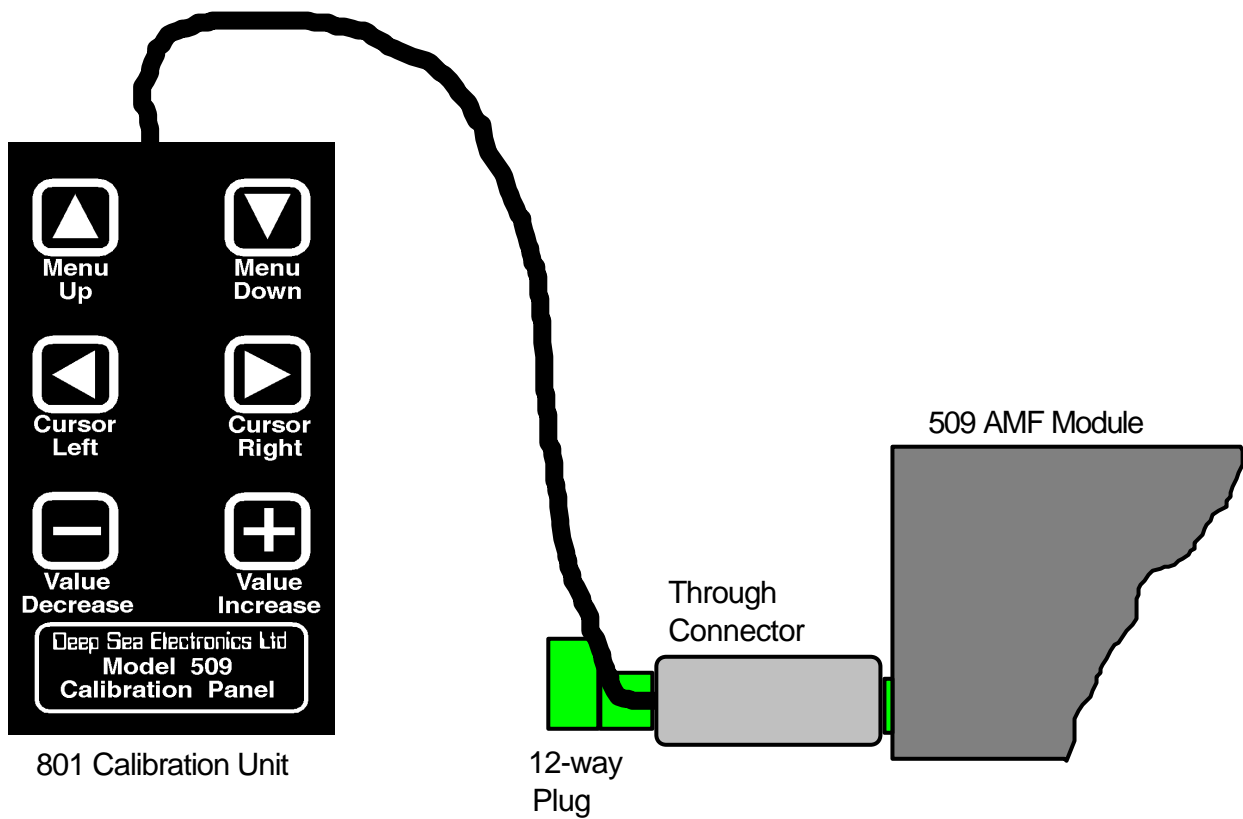
The 801 through-connector should then be inserted into the 12-way socket on the rear of the 509. Then inserting the 12-way plug previously removed, into the rear of the 801 through connector.



## CASE DIMENSIONS



## TYPICAL CONNECTIONS



**Deep Sea Electronics Plc.**  
 Highfield House, Hunmanby Industrial Estate,  
 North Yorkshire. YO14 0PH.  
 ENGLAND  
 Tel:+44 (0)1723 890099.  
 Fax: +44 (0)1723 893303.  
 Email: sales@deepseapl.com  
 Web: www.deepseapl.com

**Deep Sea Electronics inc.**  
 5301 E. State St. – Suite 202  
 Rockford, Illinois 61108  
 U.S.A.  
 Phone: +1 (815) 316-8706  
 Fax: +1 (815) 316-8708  
 Email: dsesales@deepseausa.com  
 Web: www.deepseausa.com