



Deep Sea Electronics Plc

500 Series CONTROL MODULES

MODEL 545 LED EXPANSION MODULE

DESCRIPTION

The 545 is an **LED display expansion module** for the 500 series range of modules. It can be configured to provide local or remote (up to 50m!) LED indications driven directly from the host module which then allows the OEM to meet more complex specifications than could have been achieved using the 'New' 500 series module alone. The module comprises of a panel mounted module with an interconnecting FCC 68 cable. This allows for rapid fixing in a panel to up-grade the 500 Series module.

The LED expansion features eight red LED's which can be configured to be normally extinguished, illuminating on command, or, normally lit, extinguishing on command. The differing modules provide the commands, for instance; The 52x auto-start module has 32 different control sources from which to drive the LED's, the 53x module has 53 different control sources from which to drive the relays, the 54x has 31 sources. Future modules will also provide control source commands to the 545. A further LED indicates that the 545 module is receiving a DC power supply and a flashing 'Link Lost' LED is fitted to indicate a communication problem to the host module.

The LED expansion is an extension of the modules' LED capabilities, simply connect the LED module to a compatible module and configure the expansion outputs accordingly.

On more complex panels or where comprehensive remote signalling is required then each control module in the system can be connected to a 545 LED expansion module.

Using this modular approach and utilising the benefits of single wire host connection, complex specifications can easily be met by lightly modified standard product panels. Traditional methods would have required the use of a PLC based system with all its added complexity.

For a complete list of all the possible control sources for the 545 LED module, please refer to the 808 Software manual(MS-DOS) or the P808 for Windows™ Manual.

NOTE:-The 545 LED Expansion Module must only be connected to modules type 52X, 53x, 54x, 55x or future compatible modules. It will not function with Manual start module type 51x or the 509 AMF module.

NOTE:-Input expansion for the auto-start module can be achieved using the 540/541 Expansion Annunciator.



SPECIFICATION



DC SUPPLY :

The 545 is powered from the plant battery or from a low voltage supply between 8 to 35V Continuous. It is able to survive 0V for 50ms during cranking, providing supply was at least 10V before dropout and supply recovers to 5V. This is achieved without the need for internal batteries.

MAX. OPERATING CURRENT :

20mA @ 12V, 26mA @ 24V.

MAX. STANDBY CURRENT :

107mA @ 12V, 113mA @ 24V

A or B MODE SELECTOR :

Recessed Jumper Selector on rear.

DIMENSIONS :

72 x 144 x 59 DIN Rail mounted housing.

OPERATING TEMPERATURE RANGE :

-25 to +55°C

INDICATIONS :

Power On LED

Link to controller lost LED (*Flashing*)

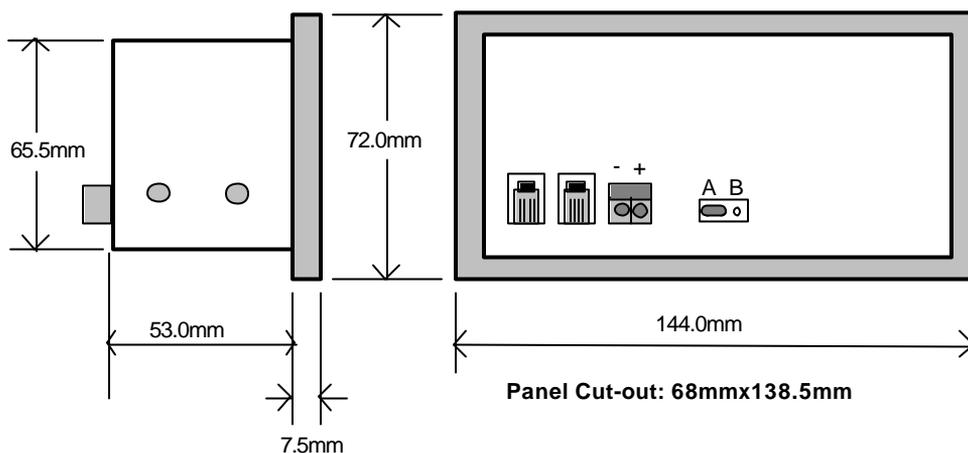
8 Configurable LED's

CONFIGURATION :

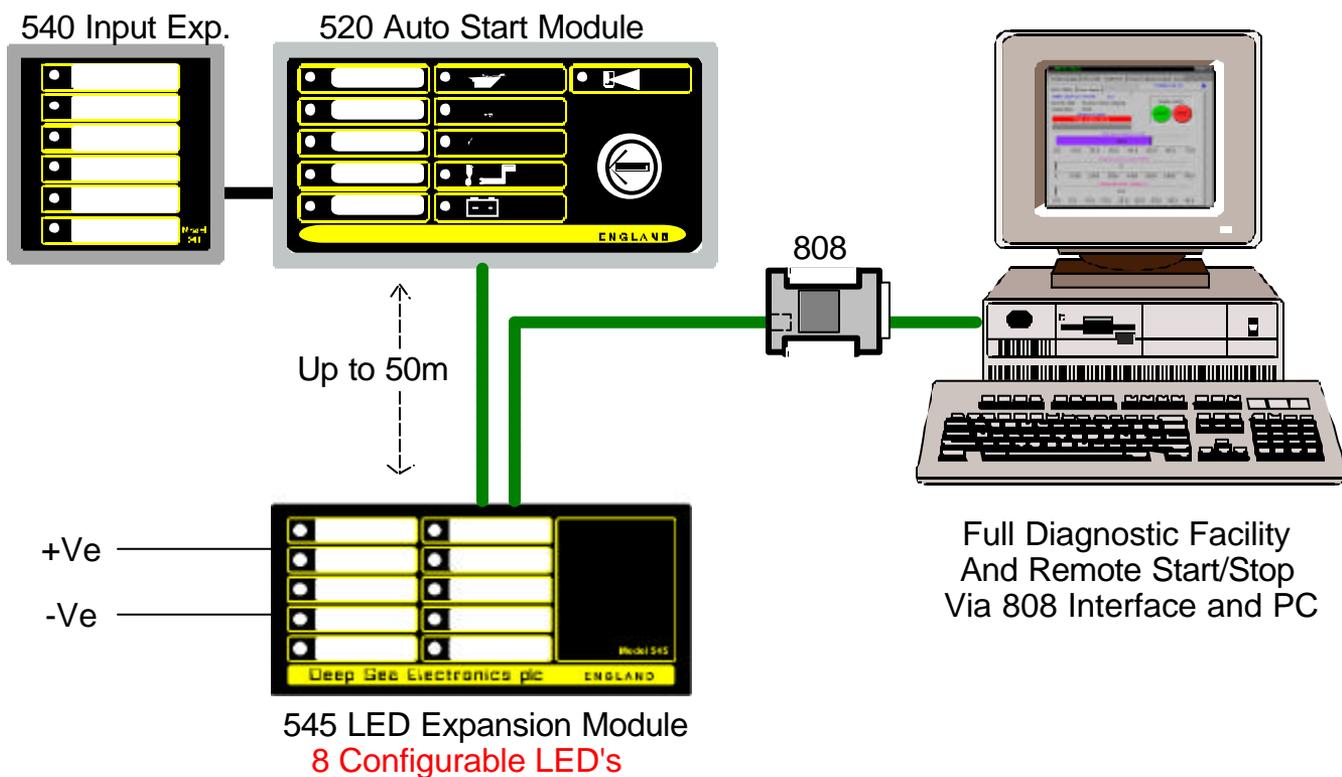
The module will automatically respond to signals from a correctly configured 500 series module. The module must be configured via the 808 interface and a PC. The Expansion LED's are numbered from 1 to 8 and appear in the Output configuration menu. For more information on configuration and output state refer to the 808 Software Manual(MS-DOS) or the P808 for Windows™ Manual.

NOTE:- The 545 must be used in 'A' mode when connected to host modules with a single expansion capability. The 'B' mode is used where modules have a double expansion capability and will respond to Output Control Sources numbered from 9 to 16. 52x,53x,54x Modules all have single expansion capability. The 55x modules have a double expansion capability. (LED Module 548 is intended to be used)

CASE DIMENSIONS



TYPICAL CONNECTIONS



Deep Sea Electronics Plc

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