DEEP SEA ELECTRONICS PLC

545
EXPANSION MODULE

Issue 3
VH 25/01/02

DESCRIPTION

The 545 is an **LED Display Expansion Module** designed for use with 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, allowing the OEM to meet demanding specifications.

The module comprises a panel mounted module and interconnecting FCC 68 cable, enabling rapid fixing.

The LED expansion features eight, red LED's which can be configured as follows:

- normally extinguished and illuminating on command
- normally lit and extinguishing on command.

Different modules provide the commands e.g. The 52x auto-start modules have 32 different control sources from which to drive the LED's, the 530 module has 53 different control sources and 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.

On more complex panels, or where comprehensive remote signalling is required, 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, demanding specifications can be achieved by making small modifications to standard product panels. Traditional methods would require the use of a PLC based system with all its added complexities.

Further information can be obtained from the P808 for Windows™ Manual, on the following:

- A complete list of control sources
- Configuration and output state

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

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. Modules 52x, 53x, 54x all have single expansion capability. The 55x modules have a double expansion capability. (LED Module 548 is intended to be used)

NOTE
Input expansion for the 500 Series modules can be achieved using the 540/541 Expansion/Annunciator. Refer to 540/541 leaflet.

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 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 59mm DIN rail mounted housing.

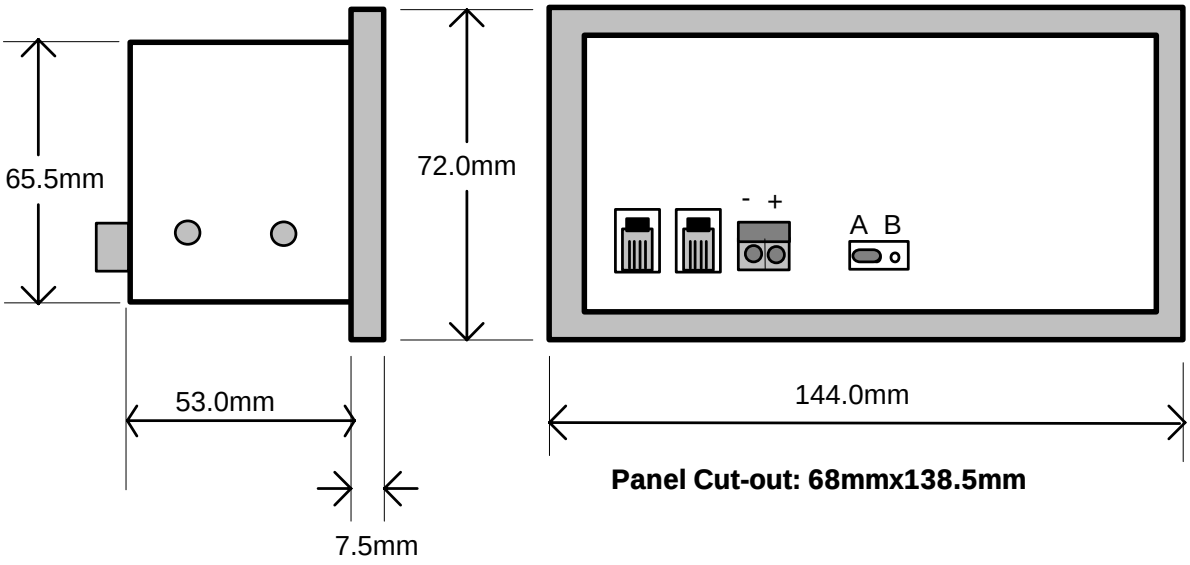
OPERATING TEMPERATURE RANGE:
-25 to +55°C

INDICATIONS:
Power On LED
Link Lost (to controller) LED *Flashing*
8 Configurable LED's

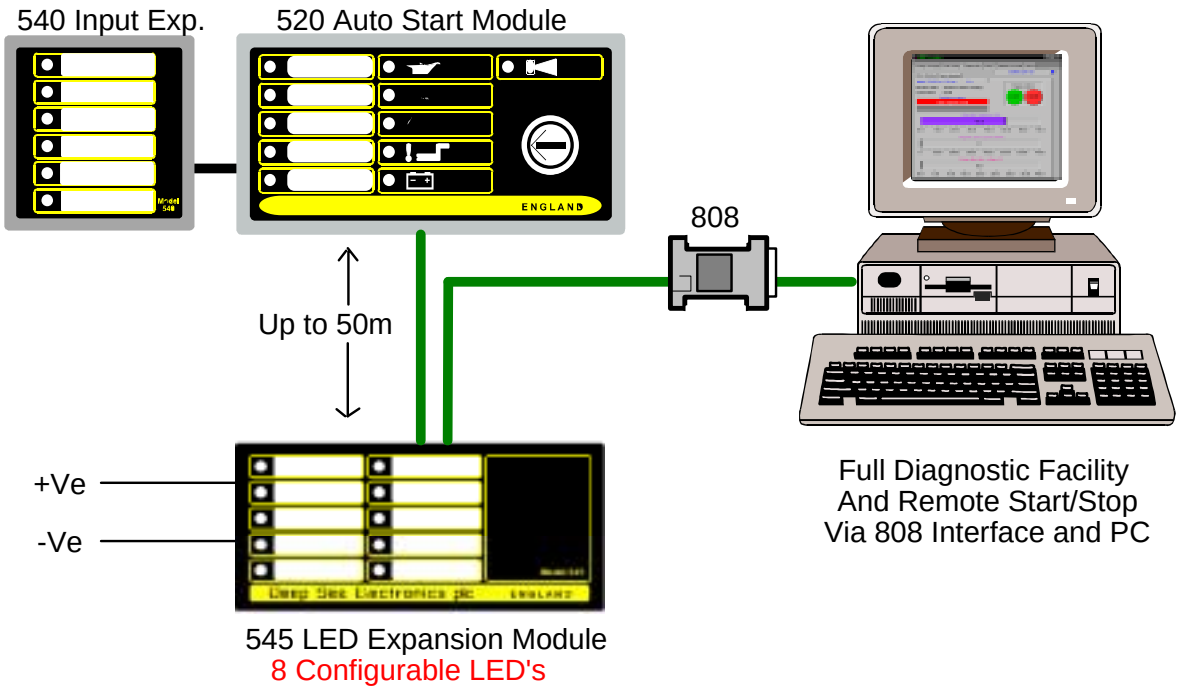
CONFIGURATION:
The module will automatically respond to signals from a correctly configured 500 series module. The module must be configured via the 808 interface and a PC. The Expansion LED's are numbered from 1 to 8 and appear on the output configuration menu.

Deep Sea Electronics plc reserve the right to change specification without prior notice.

CASE DIMENSIONS



TYPICAL CONNECTIONS



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