



Deep Sea Electronics Plc

500 Series CONTROL MODULES

MODEL 548 LED EXPANSION MODULE

DESCRIPTION

The 548 is an **LED display expansion module** for the 55x 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 55x 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 55x 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 host module provide the commands; The 550 auto-start module has approximately 100 different control sources from which to drive the LED's up to two 548 LED expansion modules can be used with the 55x module giving a total of 16 configurable LED outputs. Future modules will also provide even more control source commands to the 548. Each 548 has a further LED to indicate that it 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 its 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 548 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 548 LED module, please refer to the P810 for Windows™ Manual.

▲NOTE:-The 548 LED Expansion Module is designed to be used in conjunction with the 55x range of modules. It will also work with modules type 52X, 53x, 54x. It will not function with Manual start module type 51x or 509 AMF Module.

▲NOTE:-Input expansion for the 55x module can be achieved using the 540/541 Expansion Annunciator.

SPECIFICATION



DC SUPPLY :

The 548 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*)

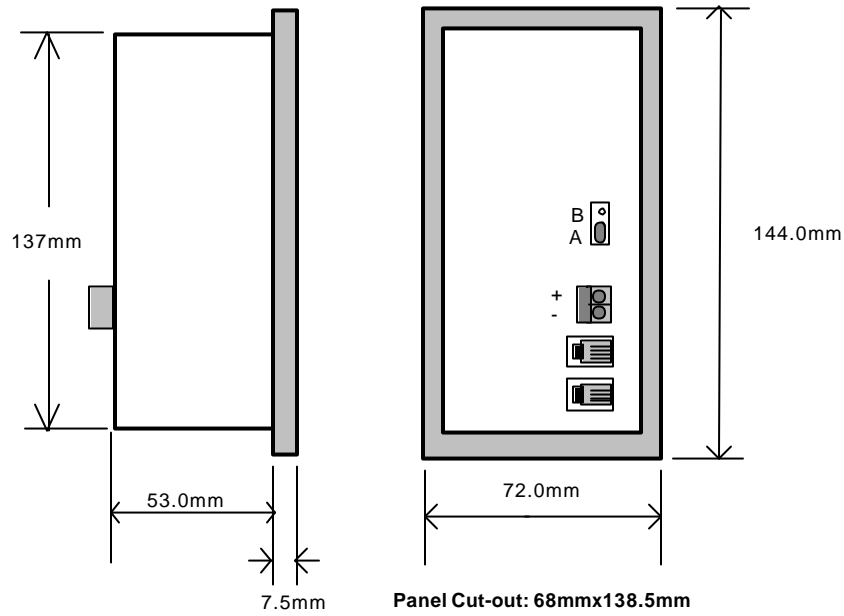
8 Configurable LED's

CONFIGURATION :

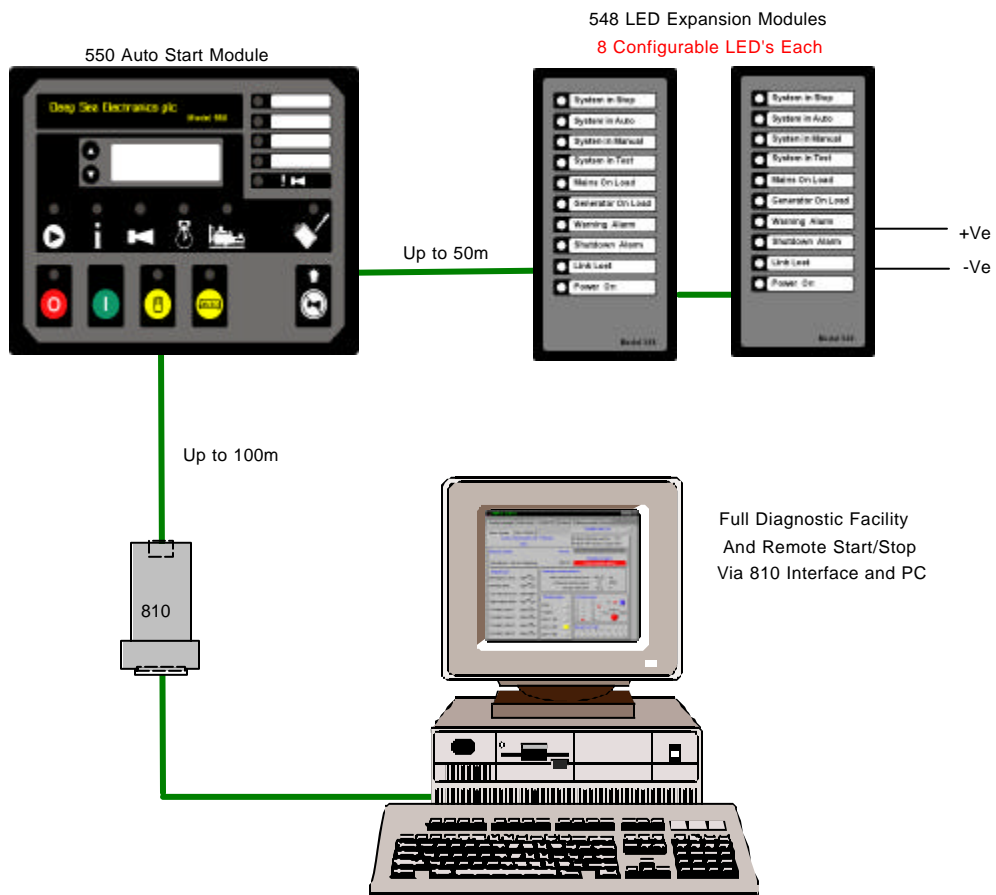
The module will automatically respond to signals from a correctly configured 55x series module. The module must be configured via the 810 interface and a PC. The Expansion LED's are numbered from 1 - 8, 9 -16 and appear in the Output Expansion configuration menu. For more information on configuration and output states refer to the P810 for Windows™ Manual.

▲NOTE:- The 548 must be used in the correct mode to function correctly. The 'A' mode is used to number the 548 LED 1 through to 8. The 'B' mode is used to number the LED 9 through to 16. Thus using one 548 in 'A' mode and one 'B' mode 548 give 16 independent LED's. Mode selection is via a recessed jumper on the rear of the 548.

CASE DIMENSIONS



TYPICAL CONNECTIONS



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