

## DSEM835 3.5" Programmable Display Small Footprint. Powerful Performance.



Since 1975 UK Manufacturer DSE has led the field in control technology. Designing and manufacturing high quality control modules, DSE supplies OEM's worldwide across a wide range of industry sectors including construction, mining and power generation.

DSEControl® is a dynamic range of advanced programmable controllers and displays for vehicles and off-highway machinery. DSEM-Series displays deliver intuitive user interfaces, customised with software and provide users application flexibility with a mix of keyed and touchscreen technology. Screen sizes available from 3.5" to 12".

The DSEM835 is an extremely powerful CAN display controller programmed using CODESYS 3.5. The DSEM835 provides clear information for off-highway and vehicle applications where space is a premium, with installation to suit multiple operator locations, both in cab or externally mounted. Its size to feature ratio allows the controller to be used in small or large applications.

The high resolution, 3.5" optically bonded, full colour TFT display is a robust, reliable device that provides excellent sunlight readability in the most extreme environmental conditions, including humidity and hot/cold temperatures. The DSEM835 has the functionality to operate in temperatures between 85°C and -40 °C. IP67 rating means whether mounted internally or externally it is protected against dust, water and other contaminants. All DSEM-Series displays are rigorously tested to withstand shocks, bumps and high vibrations commonly associated within the harsh environment of the construction industry.

The DSEM835 supports full 11 and 29 bit CANbus with integrated J1939 functions to aid and reduce software development time. An internal programmable termination resistor is available to simplify wiring, utilising the standard DT16 connector for all connections.

With onboard I/O, standard digital switches that are normally found within the cab or control panel can be incorporated into the DSEM835, complementing the data available on the CAN network. Additionally, fluid sensors including pressure and temperature can be connected directly to the unit with the information displayed, thus increasing the flexibility, and saving the need for installing additional CAN I/O modules. 3 digital outputs are also available, each capable of switching 1 Amp, providing further design flexibility and reducing the need for relays.

Historically CAN information has been received from diesel engines and vehicle chassis', however since the increase in demand of electrification across the construction industry, it should be noted that any information available on a CAN network can be received, controlled and displayed. For example connecting to BMS (battery management systems), viewing battery health and temperature, state of charge, error codes etc. The same is true for motor controllers and drive systems.



The fully programmable screen can present clear information in a combination of text, graphical and icon formats providing the user with quick and easy access to equipment operational functions, together with following the OEM's corporate font and colour branding.

The DSEM835 is the perfect solution for construction vehicles and machinery where dash/cab space is at a premium.