

Controlling interest

BRIDGING THE GAP BETWEEN MECHANICAL CONTROL AND COMPLEX PLC SYSTEMS, AND PROVIDING HUGE FLEXIBILITY AND EASE OF USE, THE LATEST ENGINE CONTROLS ARE RECEIVING A GREAT DEAL OF ATTENTION

▶ The growing demand for improved engine protection and control for applications such as pumps, hydraulics, compressors, conveyors and off-highway equipment in general has led one manufacturer to develop a range of dedicated engine controls. From the most complex to the simplest applications, the control modules are sophisticated enough to handle the toughest tasks, but simple enough to provide a better and viable alternative to mechanical control.

Designed and manufactured in the UK by Deep Sea Electronics (DSE), these new engine controls have been engineered to a high standard, offering many advanced features. Flexibility is a key feature, enabling OEMs to standardize on one product while covering many different applications. Settings can be easily changed using the intuitive DSE Configuration Suite PC software, and also via the front fascia of the modules, allowing the products to be easily adapted. PIN protection is provided to prevent accidental or unauthorized alteration of the operating parameters, sequences, timers and alarms.

The new design – the DSEE400 – is a compact, waterproof version of the established DSEE800, with a combination of 11 multiflex and digital inputs, seven configurable outputs and a dedicated emergency stop input. A sophisticated level of information showing engine protection, status, alarms and an eight-event scheduler, is displayed on a clear LCD screen in multiple language options, making the unit suitable for overseas projects.

The DSEE800 has been established for 18 months and has become a trusted asset for the control of some of the most demanding engine applications, providing an advanced level of engine protection and functionality. With 23 configurable ratiometric and digital inputs, eight configurable DC and PWM outputs, remote communications and sophisticated datalogging and trending, it offers the same easy-to-use interfaces for the installer and the user.

Pumped for action

Several high-profile projects are using the modules in dewatering, pump, hydraulic power packs and other applications. A major UK pump hire company chose them for use in its fleet of mobile pump sets for flood control and dewatering applications. The company liked the user-friendly nature of the DSEE800 and the simplicity of the programming software.



The DSEE800 is used in hydraulic and pump applications

Sjaak Kuiper of Techno Gamma (Netherlands) has experience of the modules in a variety of applications. One of these is for a company specializing in hydraulic power packs for crushing, lifting and piling applications. The DSEE800 is used to control and monitor the flow and pressure of the oil operating the hydraulics, and at the same time provides extensive engine protection and diagnostic data. The customer commented, "The DSEE800 is good quality and reliable, which is key for remote applications. It is also easy to use the configuration tool."

Both the DSEE800 and the newer DSEE400 controllers are compatible with both conventional and the latest Tier 4 electronic (CAN) engines, providing built-in governor control, pump control (Fill, Empty, Maintain Full, Maintain Empty), automatic and manual speed control including speed ramping, clutch control and flexible automatic start control. The CAN features include full DPF regeneration management to help prolong the life of the engine. Many other features engineered into

these modules make them an attractive proposition for OEMs, saving them engineering time on panel wiring, while at the same time offering some very sophisticated control solutions and protections.

Although DSE is reasonably new to the engine control market, it is no stranger to the control market. "Established more than 40 years ago, we are the market leader in controls for gensets, ATS applications and intelligent battery chargers," claims Mark Wass, divisional sales manager at DSE. "The expertise and knowledge within DSE has made the transition into engine controls very smooth, and with the research and extensive testing we give our products, we are confident the DSEE400, along with the established DSEE800, can offer an improved alternative to traditional mechanical controls for applications where PLC control is too complex or cost prohibitive." **IT**

Anthony Plater has worked at DSE for 11 years, where he has been technical support engineer, business development manager, marketing manager

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ENGINE & PUMP CONTROL MADE EASY



YEARS OF EXCELLENCE
1975 - 2015



The DSEE400 and DSEE800 are designed and manufactured in the UK for high quality and reliability, offering many advanced features for engine applications. Operating parameters, sequences, timers and alarms are easily changed, allowing the products to be adapted for use, allowing OEMs to standardise on one product, while covering multiple applications.

The new DSEE400 is a compact, waterproof module with a combination of multi flex and digital inputs, dedicated emergency stop and configurable outputs.

The DSEE800 includes configurable digital and ratiometric inputs, configurable DC and PWM outputs, remote communications and sophisticated data logging and trending.

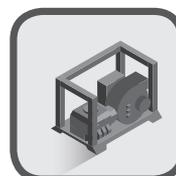
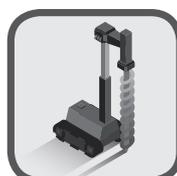
Engine protections, status, diagnostics, alarms and an event scheduler, is displayed on a clear LCD screen in a choice of languages, making both units suitable for overseas projects.

Both modules are compatible with conventional engines and the latest Tier IV electronic (CAN) engines, providing built-in governor control,

pump control, automatic and manual speed control including speed ramping, clutch control and flexible automatic start control. The CAN features include full DPF regeneration management to help prolong engine life. Many other features are included as standard.

Configuration changes are easily made by downloading the DSE Configuration Suite PC Software from the DSE website, providing a user-friendly and cost free interface.

Please call us or see our website for further information.



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